2014 ANNUAL COMPLIANCE REPORT
STORM WATER MANAGEMENT PROGRAM

HONOLULU HARBOR NGPC HI 03KB482
KALAELOA BARBERS POINT HARBOR NGPC HI 03KB488

MĀLAMA I KE KAI –
Protect Our Harbor Waters

DEPARTMENT OF TRANSPORTATION, HARBORS DIVISION
79 South Nimitz Highway
Honolulu, Hawaii 96813

January 28, 2015

TABLE OF CONTENTS

PART I – GENERAL INFORMATION 5
PART II – SELF-ASSESSMENT 8
PART III – SUMMARY OF MINIMUM CONTROL MEASURES 13
I. GENERAL PROGRAM REQUIREMENTS 13
II. PUBLIC EDUCATION AND OUTREACH 14
III. PUBLIC INVOLVEMENT AND PARTICIPATION 25
IV. ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM 26
V. CONSTRUCTION SITE STORM WATER RUNOFF CONTROL 33
VI. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT 36
VII. POLLUTION PREVENTION AND GOOD HOUSEKEEPING 40
PART IV --- SUMMARY OF INFORMATION COLLECTED AND ANALYZED 44
PART V --- PROGRAM OUTPUTS & ACCOMPLISHMENTS 46

ATTACHMENTS ON CD

1. Photosheets
2. Consent Decree Compliance Tracker
3. HDOT Reorganization
4. New Educational Materials
    a. Storm Drain Protection BMP Flier
    b. Suggested Vendor Handout
    c. Construction Brochure
    d. Post-Construction Brochure
5. Newspaper Advertisement
6. MS4 Maps
    a. Storm Drain Map Books (HNL & KBPH)
    b. ORI Storm Drain Research for Mapping
7. Storm Drain Labeling
    a. Medallions Ordered
    b. Photo of Stenciled Drain
8. Educational Signs Location Maps
9. Tenant Environmental Manager of the Year (TEMY) Award
10. Tenant Training
    a. Presentation
    b. Sign-In Sheets
    c. Training Feedback Summary
11. Tenant Survey
    a. Summary of Survey Results
    b. Completed Surveys
12. Construction & Post-Construction Training
    a. Presentation
    b. Sign-In Sheets
    c. Summary of Survey Results
    d. Completed Surveys
13. Maintenance Worker Training
    a. Presentation
    b. Summary of Training
    c. Sign-In Sheets and Surveys
14. Division Employee Training
    a. Training Fact Sheet
    b. Summary of Survey Results
15. IDDE Training Presentation
16. Inspector Training

    a. Tenant Inspection Presentation
    b. ORI Inspection Presentation
    c. On-The-Job Training Summary
17. Tenant Risk Ranking and Inspection Summary
18. Tenant Illicit Discharge Investigations
19. SHOT Form IDDE Investigations
20. Outfall Prioritization Summary
21. ORI Forms
    a. Dry Weather – Honolulu Harbor
    b. Dry Weather – Keehi Industrial Park Area (KIPA)
    c. Dry Weather – Kalaeloa Barbers Point Harbor (KBPH)
    d. Wet Weather
22. Active Construction Projects Inventory and Inspection Summary
23. Construction Plan Review Summary
24. Permanent BMP Plan Review and Inventory
25. Baseyard Waste Disposal Summaries
26. HAR-OCG Storm Drain Maintenance Field Records
27. HAR-OCG Storm Drain Inspection Field Records
28. Spill Log
29. Trainer Qualifications
30. Updated Tenant Lease Agreements

PREPARED BY: **ENVIROSERVICES AND TRAINING CENTER, LLC**

ACRONYMS

ACOE	Army Corps of Engineers
ACR	Annual Compliance Report
AG	State of Hawaii, Department of the Attorney General
BMP	Best Management Practice
CCH	City and County of Honolulu
CM	Construction Manager
DOH-CWB	State of Hawaii, Department of Health, Clean Water Branch
DOT	State of Hawaii, Department of Transportation
EPA	U.S. Environmental Protection Agency
ERP	Enforcement Response Plan
ETC	EnviroServices and Training Center, LLC
GIS	Geographic Information System
HAR	Hawaii Administrative Rules
HAR-E	Harbors Division, Engineering Branch
HAR-EC	Harbors Division, Engineering Branch, Construction Section
HAR-ED	Harbors Division, Engineering Branch, Design Section
HAR-EE	Harbors Division, Engineering Branch, Environmental Section
HAR-EM	Harbors Division, Engineering Branch, Maintenance Unit
HAR-EP	Harbors Division, Engineering Branch, Planning Section
HAR-O	Harbors Oahu District
HAR-OCG	Harbors Oahu District, Custodial & Grounds Maintenance Unit
HAR-OM	Harbors Oahu District, Maintenance Unit
HAR-PM	Harbors Division, Property Management Section
HAR-SI	Harbors Division, Management Information Systems
IDDE	Illicit Discharge Detection and Elimination
KBPH	Kalaeloa Barbers Point Harbor
MOA	Memorandum of Agreement
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
O&M	Operation and Maintenance Plan
ORIIP	Outfall Reconnaissance Inventory Inspection Program
P2	Pollution Prevention
PM	Harbors Division Project Manager
SHOT	Stormwater Hotline Occurrence Tracking
SSS O&M	Storm Sewer System Operations and Maintenance Plan
SWMP	Storm Water Management Plan
TIM	Tenant Inspection Manual
TMDL	Total Maximum Daily Load
TSI	Tenant Self Inspection
VGP	Vessel General Permit

Municipality/Organization: State of Hawaii
Department of Transportation
Harbors Division

State of Hawaii NPDES Program Permit Number: **HI 03KB482 (HNL)**
HI 03KB488 (KPBH)

Annual Report Number & Reporting Period: **Year 12**
January 1, 2014 – December 31, 2014

Honolulu Harbor
Kalaeloa Barbers Point Harbor
NPDES Small MS4 General Permit
Stormwater Annual Compliance Report

PART I – GENERAL INFORMATION

Permittee (Owner/Operator) Details

Owner: Ford N. Fuchigami Title: Director of Transportation

Telephone #: (808) 587-2150 Email: ford.fuchigami@hawaii.gov

Mailing Address: State of Hawaii, Dept. of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813-5097

1. Is the named permittee relying on another entity/ies to satisfy some of its permit obligations? ☒ Yes ☐ No
   a. If Yes, provide the name(s) of other entity/ies and an explanation of their responsibilities (add more spaces or pages if needed):

NAME	RESPONSIBILITIES
State of Hawaii, Department of the Attorney General (AG)	Involved in making changes to the Hawaii Revised Statues and Hawaii Administrative Rules. Developing and implementing the Enforcement Response Plan (ERP).
City and County of Honolulu Dept. of Planning & Permitting Site Development Division Wastewater Branch	Assumes tracking of drainage connections to its wastewater sewer system through Industrial Wastewater Discharge Permit.
Construction Managers (Various Firms)	Conducts construction inspections and ensure that construction sites are in compliance with applicable environmental regulations.

NAME	RESPONSIBILITIES
EnviroServices & Training Center, LLC	Assists Harbors in meeting requirements of the Consent Decree, the Small MS4 NPDES permits, and other environmental regulations.
Weston Solutions	Assists Harbors in meeting requirements of the Consent Decree, the Small MS4 NPDES permits, and other environmental regulations as well as civil and environmental engineering support services.

2. Is the named permittee sharing a SWMP(P) with other entities? ☐ Yes ☒ No
   a. If "Yes," list all associated permit numbers and permittee names (add additional spaces or pages if needed):

PERMIT NUMBER	PERMITTEE

3. Is this a system-wide annual report including information for all permittees?
   ☐ Yes ☐ No ☒ N/A
   a. Explanation, if any:

---

4. Has a copy of this annual report been submitted to the Regional U.S. EPA Administrator at Region 9? ☒ Yes ☐ No

5. Storm Water Management Plan (SWMP)

   a. Changes have been made or are proposed to the SWMP since the NOI or the last annual compliance report (ACR), including changes in response to DOH-CWB/EPA Region 9 review. ☒ Yes ☐ No
      i. Explanation: The entire SWMP is being modified to meet the conditions of the Consent Decree (1:14-CV-00408-JMS-KSC) filed on November 5, 2014. The Modified SWMP will be submitted no later than February 3, 2015 and will be on the DOT Harbors website for review for 45 days: http://hidot.hawaii.gov/harbors/library/storm-water-management/. It should be noted, however, that activities for 2014 were implemented based on the 2009 version of the SWMPs and the 2014 Consent Decree.

   b. If Yes to the above, has the DOH-CWB/EPA Region 9 already approved the original SWMP? ☐ Yes ☐ No ☒ N/A
      i. Explanation: The original SWMP was submitted to DOH-CWB per HAR 11-55, App K. Changes to the SWMP were included in the previously submitted ACRs.

c. Changes have been made or are proposed to the Outfall Reconnaissance Inventory Inspection Program (ORIIP) during the reporting year. ☒ Yes ☐ No
   i. Explanation: The 2009 SWMP included a section on outfall reconnaissance; however, the specific procedures have been further described in the ORIIP manual. Specific changes include preparations that should be made, safety considerations, observations that should be made, and investigation procedures for potential illicit discharges. The ORIIP manual was finalized in August 2014 in coordination with the DOH-CWB and was used as guidance for the dry weather and wet weather outfall inspections in 2014.

d. Changes have been made or are proposed to the Tenant Inspection Manual (TIM) during the reporting year. ☒ Yes ☐ No
   i. Explanation: The 2009 SWMP included an Inspection and Enforcement Manual dated November 2009 in the appendices. This document was developed into the TIM in coordination with the DOH-CWB. The TIM includes more information about types of inspections, training requirements, updated inspection forms, and information for vessels. The TIM was finalized in August 2014 and utilized to conduct inspections and training in 2014.

6. The MS4 has annexed land since obtaining permit coverage. ☐ Yes ☒ No

7. A receiving water body is newly listed as impaired or a TMDL has been established. ☐ Yes ☒ No

PART II – SELF-ASSESSMENT

Narrative Provisions

1. Provide information on the status of complying with permit conditions:

	YES	NO	EXPLAIN
Permittee is in compliance with NPDES permits.	✓		Harbors has continually worked toward compliance with both the Honolulu Harbor and Kalaeloa Barbers Point Harbor NPDES permits. Based on guidance provided by the DOH and EPA auditors, Harbors has been able to expand the environmental program and meet the six minimum measures.
Permittee has met all conditions of the Consent Decree (1:14-CV-00408-JMS-KSC).		✓	At the end of CY2014, Harbors had met all Consent Decree submission requirements due by the end of the year. The two items that were behind schedule were (a) the Kalaeloa Barbers Point Harbor Stockpile Finalization Plan which was originally submitted on time, but was subsequently returned with review comments by EPA and DOH, and (b) the Illicit Discharge Detection and Elimination training for Marine Cargo Specialists and Harbor Agents which was postponed from late December 2014 to late January 2015 due to the unavailability of trainee personnel during the holiday season.
Permittee is currently in compliance with recordkeeping and reporting requirements.	✓		Harbors has adequately retained required records. In addition, Harbors is in the process of acquiring an asset management system that will allow for convenient data filing/storage, data management, and ready access.

2. Provide a general evaluation of the program's progress, including any obstacles or challenges encountered in implementing BMPs, meeting the program's schedule, etc.

   SWMP Core Progress Evaluation: Since the SWMP is currently being modified to meet the requirements of the Consent Decree, Harbors has begun to turn their efforts toward meeting these new conditions in 2014. Even though the modified SWMP has not yet been completed, staff has had the forethought to look ahead and begin to implement additional practices wherever possible to ensure compliance. In particular, management has become more involved in the implementation of the program. As a result, the

majority of Harbors employees are now aware of the impacts their activities may have on the stormwater runoff and how to use best management practices (BMP) to reduce or mitigate that impact. This has been the most effective change in the reporting year.

Harbors Engineers (HAR-E) have attended construction training and begun to work with the Environmental Section (HAR-EE) to ensure that all projects are thoroughly evaluated for environmental concerns, inspections are accomplished and deficiencies are promptly corrected. The emphasis by the Project Managers has lead to an increased vigilance by the contractors and Construction Managers, which has prevented illicit discharges from construction activities that occurred in 2014.

The Harbors Maintenance Unit and Marine Cargo Specialists (Pier Coordinators) have also increased their vigilance. Both groups are frequently patrolling the harbor area and document their observations on conditions of the storm drains and potential illicit discharges. This vigilance has made a noticeable difference in activities performed by harbor users, including decreased generation of potential pollutants and decreased illegal disposal of wastes. Further, Harbors has continued to remove waste items, clean storm drains, and sweep roads, which help to prevent the discharge of potential pollutants. Harbors also initiated a beautification project on Pier 1 that removed 600 tons of waste items and installed a vegetated buffer between the tenant activities and the harbor. This will aid in removing pollutants in the stormwater runoff before it enters the receiving water.

Another area of increased progress has been the mapping of the storm drainage system. Harbors has been working with the Army Corps of Engineers (ACOE) to verify all the drainage structures that are a part of the Small Municipal Separate Storm Sewer System (MS4). This has included field investigations of MS4 structures by the ACOE and the development of a Geographic Information System (GIS) map. The map is currently available online at https://www.arcgis.com/home/signin.html (Note: access may be requested by contacting Randal Leong, (808) 587-1962). A print out of the map has been included in Attachment 6. This map is continuing to be updated by data obtained from ORI investigations and HAR-OCG storm drain maintenance work. An accurate depiction of the MS4 will allow Harbors to more effectively protect it from pollutants and investigate illicit discharges.

Challenges: The implementation of new and expanded programs as required in the Consent Decree has been a challenge this year for Harbors. In particular, many of the program documents had to be revised to meet the new requirements. There has been a learning process as Harbors been to conduct the activities required in these documents and discovers what actually works in the field. Additionally, many of the Harbors personnel have expanded roles and responsibilities in regards to stormwater compliance that they may not have previously had. Therefore, training sessions and on-the-job training efforts have had to be increased. However, despite the challenges of implementing new procedures, Harbors has been able to show continuing improvement in stormwater environmental compliance.

3. Provide a general assessment of the appropriateness of the selected BMPs:

   a. Has the permittee determined that any of the selected BMPs are not appropriate for reducing the discharge of pollutants in the storm water? ☐ Yes ☒ No

      1. Provide explanation, if yes:

---

4. Effectiveness of the program.

   a. Are the metrics tracked effective in measuring specific activities. ☒ Yes ☐ No

      Explanation: The metrics detailed in Part III of this report have been effective at tracking work being conducted for stormwater compliance. However, many of the metrics noted have been replaced by requirements detailed in the Consent Decree. This change in metrics will be discussed in the modified SWMP.

   b. Are the activities conducted effective in reducing the discharge of pollutants from the MS4? ☒ Yes ☐ No

      Explanation: Activities such as training and inspections have helped tenants and contractors identify areas that could have generated illicit discharges and controlled the sources before pollutants could be discharged. Additionally, routine maintenance activities such as debris removal aid in removing wastes before they are discharged from the MS4. All the activities conducted have been beneficial in reducing the discharge of pollutants to the harbors.

   c. Describe progress towards reducing the discharge of pollutants. Summarize any information used to evaluate reductions in the discharge of pollutants. Use a narrative description or table as appropriate:

MCM (Minimum Control Measure) Description	BMP Applied (response action on MCM/resultant outcome)	Parameter	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes / No / Explain)
P2 & Good Housekeeping	MS4 Inspection & Cleaning	Green waste, soils/fines, trash	20.45	tons	Yes – pollutants would otherwise remain in MS4
P2 & Good Housekeeping	Street Sweeping	Green waste, soils/fines, trash	134.81	tons	Yes – pollutants would otherwise remain in MS4
P2 & Good Housekeeping	Disposal of Abandoned Items	Spent batteries, computers, monitors, printers, tv	155	items	Yes – pollutants would otherwise remain in MS4

MCM (MINIMUM CONTROL MEASURE) DESCRIPTION	BMP APPLIED (RESPONSE ACTION ON MCM/RESULTANT OUTCOME)	PARAMETER	QUANTITY	UNITS	DOES BMP DEMONSTRATE A DIRECT REDUCTION IN POLLUTANTS? (YES / NO / EXPLAIN)
IDDE	Elimination of illicit discharges	Investigations	17	ea	Yes – illicit discharges eliminated

d. Provide additional explanation below:

A priority for the Harbors has been to ensure that pollutants which are not stopped at the source are captured and removed from the Small MS4 drainage system. Harbors Maintenance Unit (HAR-OCG) has been diligent in cleaning drains noted by inspectors. Further, once cleaned, they have often placed the witches' hat BMP in drains that they have noted have been consistently dirty to keep that debris out of the drainage system.

Additionally, all personnel have been trained to be observant during their daily activities and report any potential illicit discharges noted. The HAR-OCG Supervisor has stated that he frequently gets reports from his workers about conditions that could cause an illicit discharge. These are investigated and actions taken where necessary to stop the discharge.

5. Describe any proposed modifications in the coming reporting year.

SWMP: The 2009 SWMPs for the Honolulu and Kalaeloa Barbers Point Harbors are being modified to integrate changes contained in the Consent Decree and is expected to be implemented in 2015. The Modified SWMP with these changes will be posted on the Harbors' stormwater management website for a 45-day period during which tenant and public comments will be solicited and evaluated before finalizing the SWMP. Notices regarding its availability for review and comment will also be published in one local newspaper.

MS4: There are several construction projects that may result in changes to the MS4. The Pier 31 project has included the installation of several trench drains with filtration products, which is expected to be finalized in 2015. The Pier 34/35 project is expected to replace an open channel with a closed pipe. These changes will be made in the Harbors MS4 GIS map.

6. Describe whether Consent Decree implementation timelines have been met.

The Consent Decree timelines (as of 12/31/14) have been met. A more detailed description of the current status can be found in the Gantt chart in Attachment 2.

7. Evaluate the need for water quality monitoring data.

   Water quality monitoring data are not required at this point in the implementation of the SWMP and Consent Decree. Harbors is focusing on behavioral changes so that responsible parties are aware of their role in the program and how they can impact the environment. Currently, there are not sufficient practices implemented that would demonstrate a significant quantitative difference (e.g. permanent BMPs) that water quality monitoring data could reveal. Currently, BMPs are more effectively evaluated qualitatively.

8. Evaluate the need for additional storm water message signs.

   The current signs posted are sufficient at communicating the awareness message (Attachment 8 shows the locations of current signs). The majority of tenants have noticed the signs; Harbors has seen a greater change in behavior of the harbor users from the increased presence of personnel (such as the Marine Cargo Specialists and Environmental Health Specialists) in addition to the signs. Therefore, more efforts are being made to maintain that level of increased presence rather than add additional signs. However, Harbors does plan to install additional signs in locations where storm drain stenciling or medallions are not feasible (e.g. gravel lots and unlined, vegetated drainage channels) to aid in the labeling program.

PART III – SUMMARY OF MINIMUM CONTROL MEASURES

Storm Water Management Program Status

I. General Program Requirements

GENERAL PROGRAM REQUIREMENTS							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.5. Stockpile BMPs	HAR-EE / HAR-EM	By 11/5/14, develop and implement a plan for stockpile stabilization.	11/5/14	First draft of the plan was submitted to DOH and EPA for review. Harbors is in the process of addressing comments on the plan. Stockpiles have been stabilized with vegetation and berms.	✓	N/A	Implement approved plan. HAR-EM will ensure continued maintenance on BMPs implemented.
CD.10. Office of Environmental Compliance	DOT Administration	By 5/4/15, ensure: 1) Reports to Director of Transportation. 2) Reorganize and hire manager. 3) Oversee compliance for DOT. 4) Perform program audits.	11/5/14	The office has been reorganized and two of the four positions have been filled. The OEC Manager position is under recruitment. The office will begin performing program audits as required in 2015. (Attachment 3)		N/A	Finalize reorganization and conduct audits.
CD.11.a. SWMP Modification	HAR-EE	By 2/3/15, modify the joint SWMP to comply with the Consent Decree and MS4 permits and post it on the Harbors website.	11/5/14	Many of the program manuals have been revised and implemented; the joint SWMP is currently being modified.		N/A	Complete the modified SWMP and post on Harbors website.
CD.19.a. Enforcement Response Plan (ERP)	AG	By 12/5/14, submit an ERP to DOH and EPA.	11/5/14	ERP has been submitted and Harbors is awaiting comments.	✓	N/A	Implement approved ERP where required and necessary.

GENERAL PROGRAM REQUIREMENTS							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.19.b. Memorandum of Agreement (MOA)	AG	By 12/5/14, enter into an MOA with DOH.	11/5/14	The MOA is under final review and is expected be signed in early 2015. The MOA will allow Harbors to refer violations to DOH for escalated enforcement until Harbors can issue fines. Will be signed in 2015.		N/A	Implement where necessary.
CD.19.b. Authority to Issue Civil Fines	AG	By 12/31/14, obtain authority to issue civil fines.	11/5/14	The draft document describing Harbors "best efforts" to obtain authority to issue civil fines was submitted & is being reviewed. The AG's office is in the process of obtaining authority for Harbors to issue civil fines.		N/A	Obtain authority.

II. Public Education and Outreach

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CONSENT DECREE REQUIREMENTS							
CD.14.a. Awareness Message	HAR-EE	By 11/5/14, develop and display the message in three forms of information.	11/5/14	Completed. The message *"MĀLAMA I KE KAI – Protect Our Harbor Waters"* along with the DOT's raindrop fish logo have been included wherever possible. • Documents (SWMP, ACR). • Training presentations (Tenant, Construction, IDDE). (Attachments 10, 12, 15, 16) • Newspaper advertisement. (Attachment 5) • Brochures and Fact Sheet. (Attachments 4, 14)	✓	N/A	Continue to include message wherever possible.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.14.a.ii.1) Tenant Training	HAR-EE	Ensure 80% of tenants attend annual tenant storm water training.	1/1/14	Tenant trainings were conducted on 9/11/14 and 8/28/14 and there were 101 attendees, representing 70 companies. This represented 81.39% of the Harbors tenants, which does meets the attendance goal. (Attachment 10) Mr. Stephen Hinton of Marisco, Ltd. was presented with the TEMY for this year. (Attachment 9)	✓	N/A	Advertise and convene a storm water training event.
CD.14.a.iii. Newspaper Advertisement	HAR-EE	Annually place an ad in one local newspaper.	1/1/14	8/18/14 an advertisement was placed in the Honolulu Star Advertiser. (Attachment 5)	✓	N/A	Develop and place one advertisement.
CD.14.b. Website	HAR-EE / HAR-SI	Maintain a storm water website with links to other DOT divisions. Track the number of visitors.	1/1/14	The website is continuing to be updated as documents are developed. Harbors received 997 unique visitors who viewed the website 1,560 times in the last year.	✓	N/A	Update as necessary and continue to track visitors.
CD.14.c.i. Storm Water Signs	Oahu District	By 2/3/15, identify 50 locations that are suitable for signs.	11/5/14	63 signs have been installed at Honolulu Harbor and 5 signs at KBPH. Harbors has begun installing additional signs in locations where storm drains cannot be stenciled (e.g. gravel/dirt lots). Maps of sign locations are included in Attachment 8.	✓	Evaluate areas based on tenant use where additional signs may be needed.	Evaluate and install additional signs, where necessary.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.14.c.ii. Storm Drain Inlet Stencils	HAR-EE / HAR-O	By 2/3/15, stencil all storm drain inlets at the harbors. Inspect markings annually prior to 10/31/15 (wet season) and as necessary relabel within 60 days of the inspection.	11/5/14	Currently, Honolulu Harbor has 536 drain inlets and 90 open channels as KBPH has 18 drain inlets and 16 open channels. HAR-O has worked on stenciling all drains and open channels and was approximately 80% complete at the end of CY2014 (Attachment 7, example of stencil). Additionally, Harbors has worked with Wikoliana Educational Excursions to facilitate volunteer events that include storm drain cleaning and stenciling.	Underway	By 10/31/15, inspect all drains labeled for legibility. Ensure drains that are not legible or label has been damaged/removed are re-labeled within 60 days.	Finish installation of labels or medallions (Attachment 7) and inspect drains.
CD.14.d.i. Tenant BMPs	HAR-EE	By 11/5/14, develop BMPs for common tenant activities as well as vessel operators. Make available in print or on the website.	1/1/14	A list of tenant and vessel BMPs is available on the Harbors website: http://hidot.hawaii.gov/harbors/library/storm-water-management/. The storm drain inlet protection BMP flier was developed in 2014 and distributed during tenant training (Attachment 4).	✓	N/A	Distribute BMP fliers as necessary.
CD.14.d.ii. Tenant Lease Agreements	HAR-PM	Update tenant lease agreements to include a requirement to implement and maintain BMPs.	11/5/14	Lease agreement language has been updated (Attachment 30). Tenant renewals and new tenants will be issued leases with the new language.	✓	N/A	Update leases as required.
CD.14.d.iii. Vessel BMPs	HAR-O	Develop BMPs for Vessel Operators and make them available on the website or as print media.	11/5/14	A BMP flier is available on the Harbors website titled "BMPs for Small Vessel Maintenance Activities." Additionally, HAR-O has been updating the BMP flier.	✓	N/A	Distribute updated fliers.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.14.e. Tenant Inventory	HAR-EE / HAR-PM	Maintain an electronic tenant inventory.	1/1/14	Harbors has 88 tenants and the inventory is included in Attachment 17.	✓	N/A	Connect the tenant inventory to the GIS asset management system.
CD.14.f. Tenant Survey	HAR-EE	Annually, provide a questionnaire to tenants and have 60% of tenants respond. Use data from quiz to update training materials.	1/1/14	87 surveys from 70 companies were completed in association with the tenant stormwater training in 2014. There were a total of 86 tenants at this time, which is an 81% response. (Attachment 11) The questions that were most frequently missed related to the definition of illicit discharge and enforcement actions. These topics will be highlighted during training in 2015.	✓	N/A	Update the quiz and distribute to tenants.
CD.14.g. Tenant Educational Materials	HAR-EE	Twice per year, distribute educational materials to tenants.	1/1/14	Educational materials were distributed during tenant training, which included the storm drain inlet protection BMP flier and a list of local environmental vendors (Attachment 4). Additionally, brochures/BMPs were distributed during tenant inspections and new tenants were provided with the "new tenant package."	✓	N/A	Distribute materials twice per year.
CD.14.h.i. New Tenant Information Package	HAR-EE	By 11/5/14, ensure that all new tenants are provided with a new tenant information package	11/5/14	The new tenant information package is available on the Harbors website and is also provided during the initial inspection.	✓	N/A	Distribute information to new tenants.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.14.h.ii. Inspect New Tenants	HAR-EE	By 11/5/14, conduct inspections of 100% of new tenants within three months of the tenant occupying the space.	11/5/14	6 initial inspections were conducted in 2014, which represents 100% of new tenants formally identified by HAR-PM. (Labeled as "new" under the "type" column in Attachment 17.)	✔	N/A	Inspect new tenants as applicable.
CD.15.a. Employee Awareness Training	HAR-EE	By 11/5/14, distribute educational materials to employees and ensure that 80% of all employees complete an educational survey.	11/5/14	A fact sheet was developed for employees on the environmental program and provided with a survey (Attachment 14). 200 employees responded to the survey, which represents 87% of employees. The questions that were most commonly incorrect regarded how to respond to illicit discharge and how to capture and reuse stormwater at home. This will be the focus of future educational efforts. Additionally, 110 employees statewide were trained on the EMS, which included storm water compliance BMPs (Attachment 13).	✔	N/A	Provide educational materials to employees and conduct another survey.
CD.15.b.i. Illicit Discharge Detection and Elimination (IDDE) Program Training	HAR-EE	Annually, Marine Cargo Specialist and Grounds Supervisors will be trained on IDDE procedures.	1/1/14	Training materials were prepared and completed in December 2014; and the training sessions were postponed and conducted in January 2015 due to staff unavailability (Attachment 15). Employees were provided with training materials on the Harbors website and from previous training events. Further, IDDE was included in the maintenance worker training.	✔	N/A	Distribute the DVD created on the revised IDDE program.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.15.b.ii. & iii. Inspector Training	HAR-EE	Ensure that 100% of inspectors have received tenant and/or Outfall Reconnaissance Inventory (ORI) training.	1/1/14	8 consultants and employees have completed training for tenant and ORI inspections. This represents 100% of inspectors working on the program (Attachment 16).	✓	N/A	Provide training to any new personnel.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
CD.15.c. & d. Construction and Post-Construction Training	HAR-EE	Ensure that 100% of staff whose duties are related to construction or post-construction are trained by an instructor who is approved by EPA and HDOH.	11/5/14	Harbors submitted qualifications for Katie Davis, CISEC of ETC to DOH and she was approved to provide the training (Attachment 29). Construction and post-construction training was provided to inspectors on 3/31/14 and there were 27 attendees. They completed a survey and received an average score of 90%. The most frequently missed question regarded enforcement actions. On 5/22/14, 31 people attended a more comprehensive training on construction and post-construction that included design considerations was provided to Harbors employees. They completed a different survey and received an average score of 85% and most often missed the question about inspection frequency. These topics will be highlighted in the next training. Individual training was given to a new inspector on 9/23/14. Therefore, a total of 59 people attended which represents 100% of the required individuals. Supporting records in Attachment 12.	✔	N/A	Conduct annual training.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP REQUIREMENTS							
SWMP BMP 2-1 Update Educational Materials	HAR-EE	Update educational materials to include 100% of problem areas identified.	1/1/14	The focus for this year was the Harbors MS4 and ensuring that drains are identified and protected from pollutants. Therefore, training included information about the drainage system, maps were available during the tenant training, and a storm drain maintenance BMP flier was created and distributed.	✔	N/A	Continue to update educational materials as necessary.
SWMP BMP 2-1. Tenant's Feedback	HAR-EE	Obtain at least 50% positive feedback on the educational materials.	1/1/14	Surveys conducted during the training sessions revealed that 93% of attendees had a positive experience. (Attachment 10)	✔	N/A	Continue to survey tenants during training.
SWMP BMP 2-1. Tenant Self Inspection (TSI)	HAR-EE	Obtain greater than 90% response to TSI forms. Ensure that completeness of the forms has increased from previous years.	1/1/14	This form was phased out.	N/A	Replaced by CD.16.e.ii.	None.
SWMP BMP 2-1. Distribute Educational Materials	HAR-EE	Ensure that 100% of tenants are distributed educational materials.	1/1/14	See CD.14.g.	✔	Replaced by CD.14.g.	Continue to distribute educational materials at trainings, inspections, and online.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
SWMP BMP 2-1. Hotline	HAR-EE	Create and maintain one hotline number for reporting violations and answering questions. Ensure that number of inquiries increases from previous year and response occurs within 24 hours.	1/1/14	The hotline number is maintained and posted on the Harbors website and educational materials. 12 calls were received to report potential illicit discharges. These were documented on the SHOT Form Summary in Attachment 19. This represents a decrease from 2013; however, still shows that the hotline is beneficial. All calls were responded to immediately.	✓	N/A	Track and respond to 100% of public inquiries.
SWMP BMP 2-2. Storm Water Signs	Tenants / HAR-O / HAR-EE	Post "No Dumping" signs in public areas and ensure they are still present annually.	1/1/14	See CD.14.c.i.	✓	Replaced by CD.14.c.i.	Evaluate and install additional signs, where necessary.
SWMP BMP 2-2. Storm Drain Stenciling	HAR-EE / HAR-O / Volunteers	Stencil storm drains with "flows to ocean."	1/1/14	See CD.14.c.ii.	✓	Replaced by CD.14.c.ii.	Finish installation of labels and inspect drains.
SWMP BMP 2-2. Disposal of Abandoned Items	HAR-OCG	Properly dispose of abandoned items and evaluate if signage has helped in decreasing waste.	1/1/14	HAR-OCG Supervisor has indicated that the signs have not aided in dissuading improper disposal. However, increased training of tenants, employees, and Harbors Marine Cargo Specialists has helped. In particular, Marine Cargo Specialists are more present on the pier and promptly report potential storm water issues. A tally of abandoned items properly disposed is included in Attachment 25.	✓	N/A	Continue to track abandoned items.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
SWMP BMP 2-2. Website	HAR-EE / HAR-SI	Ensure that training presentations are updated and uploaded to the website. Ensure increase in viewing from previous year.	1/1/14	Tenant training presentation was updated on the Harbors website in 2014. There were 997 unique views of the website for 2014. The amount of increase will be determined in coming reporting years.	✓	N/A	Update training materials as necessary. Add construction training video to website.
SWMP BMP 2-2. Volunteer Event	HAR-EE	Set up or participate in one volunteer event. Ensure an increase in participation from the previous year.	1/1/14	Two volunteer events occurred in 2014 that were hosted by Captain Jeff Lansdown. On February 13, 2014 an Adopt-A-Harbor event was held at KBPH with 18 attendees. On September 20, 2014 an Adopt-A-Harbor event was held at Honolulu Harbor with 40 attendees (30 general public, 7 ETC employees, 2 Harbors employees, 1 family member). Therefore, there were a total of 58 volunteers, which is an increase from the previous year of 30 volunteers. (Attachment 1, Photos)	✓	N/A	Participate in volunteer events.
SWMP BMP 2-2. Newspaper Ad	HAR-EE	Annually place one advertisement in the local newspaper to educate the general public on stormwater.	1/1/14	See CD.14.a.iii.	✓	Replaced by CD.14.a.iii.	Place one advertisement in the newspaper.
SWMP BMP 2-3. Ship Monitoring	Marine Cargo Specialists	Increase the frequency of monitoring at loading / unloading zones and track actions taken.	1/1/14	Marine Cargo Specialists have increased their presence on the piers and this has resulted in a decrease in illegal dumping. Further they have assisted by identifying drains that need cleaning and potential illicit discharges.	✓	N/A	Continue monitoring activities.

PUBLIC EDUCATION AND OUTREACH							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
SWMP BMP 2-3. Marine Cargo Specialists Training	HAR-EE	Ensure that there is increasing attendance from the Marine Cargo Specialists at the annual IDDE training.	1/1/14	Formal training was postponed and conducted in January 2015 due to staff unavailability. Educational materials are made available on IDDE.		Replaced by requirement CD15.b.i.	Ensure that applicable personnel view training.
SWMP BMP 2-3. Ships Agents	HAR-OC	Keep an inventory of ship's agents and ensure that 100% are distributed educational materials.	1/1/14	The inventory is maintained by HAR-OC. Although educational materials were frequently distributed in 2014, records of receipt were not kept.	✓	Replaced by CD.14.d.iii.	Ensure that the vessel BMP flier is distributed.
SWMP BMP 2-4. Tenant Inventory	HAR-EE / HAR-PM	Update tenant inventory as inspections are conducted.	1/1/14	See CD.14.e.	✓	Replaced by CD.14.e.	Update tenant inventory as necessary.
SWMP BMP 2-4. Tenant Database	HAR-EE	Ensure 100% of tenant inspections are recorded in the database.	1/1/14	100% of inspections were tracked and recorded in the database. (Attachment 17).	✓	Replaced by CD.14.e.	Continue tracking inspections.
SWMP BMP 2-4. Tenant Inspections	HAR-EE	Ensure that 100% of inspections and enforcement actions are conducted.	1/1/14	See CD.16.e.	✓	Replaced by CD.16.e.	Inspect tenants and provide outreach materials.

III. Public Involvement and Participation

PUBLIC INVOLVEMENT AND PARTICIPATION							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CONSENT DECREE REQUIREMENTS							
CD.11.a.ii. SWMP Comments	HAR-EE	By 2/3/15, solicit comments on the revised SWMP via online post and in one newspaper for 45 days.	11/5/14	No work conducted for the year. Comments will be solicited once the Modified SWMP is completed and posted on the Harbors website.		N/A	Solicit comments and revise SWMP as necessary.
SWMP REQUIREMENTS							
SWMP BMP 3-1. Tenant Notification	HAR-EE	Ensure that 100% of tenants are notified of SWMP development.	1/1/14	100% of tenants were notified through the training invitation letter or inspection of the SWMP and its location on the Harbors website. No comments were received on the SWMP.	✓	N/A	Notify tenants of SWMP updates.
SWMP BMP 3-1. SWMP Comments	HAR-EE / HAR-SI	Post the SWMP to the Harbors website and track the number of people who viewed it and the number of comments received.	1/1/14	The SWMP is available on the Harbors website. 997 people visited the website 1,560 times and there were no comments on the SWMP.	✓	Replaced by CD.11.a.ii.	Post the SWMP and track comments.

IV. Illicit Discharge Detection and Elimination (IDDE) Program

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CONSENT DECREE REQUIREMENTS							
CD.16.a. Illicit Discharge Definition	HAR-EE	By 11/5/14, promulgate a definition of illicit discharge with examples.	11/5/14	Definition provided in all training presentations (tenant storm water, construction and post-construction, tenant inspector, ORI, and IDDE). "A non-storm water discharge that poses a risk to the environment."	✓	N/A	Continue to communicate definition.
CD.16.b.i. Tenant Site Assessments	HAR-EE, HAR-O, Marine Cargo Specialists	By December 5, 2014, conduct site assessments in high risk areas.	11/5/14	Harbors District personnel have been informed that they should remain observant during daily activities for illicit discharges. Further personnel assess sites for illicit discharges during tenant, construction, and outfall inspections. Refer to those items for additional data.	✓	N/A	Continue to conduct site assessments.
CD.16.b.ii. Outreach Activities	HAR-EE	Conduct outreach during site assessments.	11/5/14	Tenants were notified of training events, provided BMP fliers, and directed to the Harbors website. Further, on 12/16/14, a tenant storm water training was conducted during an inspection since the tenant was unwittingly left out.	✓	N/A	Continue to conduct outreach activities.
CD.16.b.iii. Enforcement	HAR-EE	Conduct enforcement for violations that were noted during site assessments.	11/5/14	The ERP was not completed during the reporting year. However, Harbors was able to ensure that violations were corrected through the use of verbal warnings and the inspection checklist. Specific data are available in the tenant and construction enforcement items.	✓	N/A	Conduct enforcement where necessary.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.16.c. Outfall Inspections	HAR-EE	Conduct wet weather and dry weather inspections per the ORIIP.	11/5/14	Dry weather screening for all outfalls that were not deemed too hazardous was completed in 2014. This included 115 outfalls in Honolulu, 29 outfalls in KBPH, and 5 follow-up actions. No illicit discharges were identified as all flows noted were attributed to uncontaminated water such as air conditioning condensate or melting ice. The outfall prioritization schedule is included in Attachment 20 and completed forms are in Attachment 21. Wet weather inspections were conducted at construction sites on Piers 1 and 35. The wet weather inspection at Pier 42E could not be completed because the site was under construction and secured during the holidays on 12/30/14 when rainfall greater than 0.1 inches per hour occurred.	✓	N/A	Conduct dry weather screening of potential, suspect, or obvious ranked outfalls. Conduct wet weather screening.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.16.d. Illicit Discharge Tracking and Elimination	HAR-EE	Identify and take necessary actions to stop the source of all illicit discharges.	11/5/14	5 investigations were made at tenant locations. 4 were resolved after tenant was able to stop the source. The last incident at Matson on 10/24/14 involved a forklift that was on fire and a sheen was noted in the fire fighting water runoff. Although, this incident is exempted under the MS4 permit, Harbors is working with Matson to determine if measures can be taken to prevent it in the future. (Attachment 18) Further there were 12 incidents reported on the SHOT Form and all were appropriately addressed or did not impact the MS4. (Attachment 19)	✓	N/A	Investigate illicit discharges where observed.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.16.e. Tenant Inspections	HAR-EE	Risk rank all tenants and inspect according to the TIM.	11/5/14	A list of all tenants and their risk rank is included in Attachment 17. There are 53 low ranked, 27 medium ranked, and 8 high ranked for a total of 88 tenants. Note: Those that have a blank space for the risk rank were not evaluated in 2014. The risk rank is blank either because they were a low risk and therefore were not inspected in 2014 or the tenant vacated the facility. 102 inspections were conducted in 2014, which represents 100% of tenants. 4 final inspections, 6 new inspections, and 55 regular inspections were conducted. Findings and enforcement actions are summarized in Attachment 17. Outreach materials were provided during these inspections or tenants were instructed to visit the Harbors website. 37 site reconnaissance assessments were conducted. Both recon and new tenant inspections were conducted for sites rented by Frank P. White Jr. Properties due to an increase in occupancy.	✓	Update tenant risk ranking as necessary and inspect according to the TIM.	Inspect tenants and provide outreach materials.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP REQUIREMENTS							
SWMP BMP 4-1. Update Maps	HAR-EE	Ensure 100% of outfalls are sufficiently mapped. Ensure 100% of the storm drains contributing to the outfalls are identified.	1/1/14	The ACOE has worked to update MS4 maps in 2014 that include outfalls. Updates were made based on drainage surveys and outfall inspections.	✔	Replaced by CD.20.a.	Update maps as necessary.
SWMP BMP 4-2. Dry Weather Outfall Inspection	HAR-EE	Ensure 100% of outfalls are inspected as required.	1/1/14	Outfall inspections were conducted on 4/16/14 and 6/6/14 at Honolulu Harbor and 5/28/14 and 11/20/14 at KBPH. These inspections represent 100% of required outfalls.	✔	Combine with CD.16.c.	Continue outfall inspections.
SWMP BMP 4-2. Wet Weather Outfall Inspection	HAR-EE	Ensure that 20% of outfalls are inspected during wet weather.	1/1/14	The outfall inspection program was revised to require inspections from construction sites or high risk tenants during wet weather. Harbors completed inspections at Pier 1 and Pier 39 on 12/3/14 (Attachment 21).	✔	Replaced by CD.16.c.	Continue wet weather inspections.
SWMP BMP 4-2. Illicit Discharge	HAR-EE	Investigate 100% of potential illicit discharges and record them in the database.	1/1/14	There were 5 incidents noted during the outfall inspection, 5 noted during tenant inspections, and 12 reported to HAR-EE. All were investigated and sources stopped where applicable. Observations were documented in the database.	✔	Replaced by CD.16.d.	Continue to investigate illicit discharges.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP BMP 4-2. Non-Stormwater Discharges	HAR-EE	Document 100% of permitted NSWDs. Ensure the number of permitted NSWDs that lack proper controls are reduced.	1/1/14	There are 5 permitted wash racks at tenant facilities and 100% have the proper controls. • Hawaii Stevedores, Inc. • Horizon Lines • McCabe, Hamilton & Renny • Matson • Young Brothers	✓	N/A	Continue to track NSWDs.
SWMP BMP 4-3. Illicit Discharge Reports	HAR-EE	Collect 100% of violation reports from the Marine Traffic Control Center.	1/1/14	A list of potential illicit discharges reported by the Traffic Control Unit, Harbor Police, Marine Cargo Specialist, and other Harbors employees is included in Attachment 19.	✓	N/A	Continue to receive reports from the Marine Traffic Control Center.
SWMP BMP 4-3. Pier Inspections	HAR-OCG	Ensure that 100% of pier inspection reports are maintained.	1/1/14	Daily pier inspections were conducted in 2014 and maintained by HAR-OCG (Attachment 27).	✓	N/A	Continue inspections.
SWMP BMP 4-3. Hotline	HAR-EE	Establish one hotline for reporting illicit discharges.	5/19/03	A hotline has been maintained for reporting illicit discharges and is posted on the Harbors website, training materials, and print media.	✓	Completed.	None.
SWMP BMP 4-3. Hotline Effectiveness	HAR-EE	Determine if the number of reports has increased. Determine if the hotline has increased the prevention or cessation of illicit discharge.	1/1/14	There were no reports from citizens, which is a decrease from the previous year. However, there were 12 reports from Harbors personnel. This lead to 2 illicit discharges being stopped, which is a decrease from the previous year. (Attachment 19)	✓	N/A	Continue tracking reports.
SWMP BMP 4-3. Advertise Hotline	HAR-EE	Advertize the hotline during training.	1/1/14	The hotline number was included in the tenant, construction, and IDDE training.	✓	N/A	Continue to advertise hotline.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP BMP 4-4. Tenant Risk Rank	HAR-EE	Ensure 100% of tenants are risk ranked.	1/1/14	See CD.16.e. and Attachment 17.	✓	Combined with CD.16.e.	Continue to risk rank tenants.
SWMP BMP 4-4. IDDE Inspections	HAR-EE	Ensure that 100% of illicit discharge reports are investigated and follow-ups completed.	1/1/14	See SWMP BMP 4-2. Illicit Discharge.	✓	Replaced by CD.16.d.	Continue to investigate illicit discharges.
SWMP BMP 4-4. DOH Reports	HAR-EE	Investigate 100% of facilities reported by DOH.	1/1/14	No reports received from DOH.		N/A	Continue to investigate as necessary.
SWMP BMP 4-5. IDDE Training Materials	HAR-EE	Update IDDE training materials as necessary.	1/1/14	An IDDE training DVD was created. A pdf of the slides is available in Attachment 15.	✓	N/A	Make updates when necessary.
SWMP BMP 4-5. IDDE Training	HAR-EE	Annually, train all applicable employees on IDDE procedures.	1/1/14	Training was postponed and completed in January 2015 due to employee unavailability. However, employees were provided with training materials on the Harbors website and from previous training events. Further, IDDE was mentioned during the maintenance worker training.		Replaced by CD.14.b.i.	Distribute training materials.

V. Construction Site Storm Water Runoff Control

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CONSENT DECREE REQUIREMENTS							
CD.17.a. City and County of Honolulu BMPs	HAR-EE	Ensure that City and County of Honolulu (CCH) BMPs are implemented for construction activities.	11/5/14	The CCH BMPs are referenced in the Construction manual. Further, during plan reviews and inspections construction sites are evaluated to ensure they are following the CCH BMP requirements.	✓	N/A	Ensure CCH BMPs are implemented.
CD.17.b.i. Construction Inspection Inventory	HAR-EE / Construction Managers	Track all construction inspections and enforcement actions in a database.	11/5/14	The database inventory is included in Attachment 22.	✓	N/A	Continue tracking construction inspections and enforcement.
CD.17.b.ii. Temporary Erosion and Sediment Control Inspector	HAR-EE / Personnel Office	By 11/5/14, assign one temp. full-time position whose duties will include sediment and erosion control.	11/5/14	One of the Harbors engineers has been temporarily assigned to sediment and erosion control duties.	✓	N/A	Continue to fill temporary position until permanent position is established.
CD.17.b.iii. Permanent Erosion and Sediment Control Inspector	HAR-EE / Personnel Office	By 12/31/15, establish a permanent erosion and sediment control position and utilize consultants.	11/5/14	The process is underway to reorganize the environmental section for the permanent position. Consultants are currently under contract to assist.		N/A	Establish position.
CD.17.b.iv. Construction Plan Reviews	HAR-EE / Engineering Project Managers	Review all construction projects for environmental requirements per the Construction Site Runoff Control Program.	1/1/14	9 DOT projects and 1 tenant project were reviewed during 2014, which represents 100% of the projects. (Attachment 23)	✓	N/A	Review construction plans.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.17.b.iv. Construction Inspections	HAR-EE / Construction Managers	Inspect all construction sites every two weeks Oct – March and every two months otherwise.	1/1/14	47 inspections have been conducted at 5 construction sites. This represents 100% of the active construction sites. (Attachment 22)	✓	N/A	Continue inspections.
CD.17.b.v. Construction Enforcement	HAR-EE	Conduct enforcement actions where necessary to ensure compliance on active construction sites.	1/1/14	36 enforcement actions have been taken. All were documented on the inspection checklist and immediately corrected by the contractor. (Attachment 22)	✓	N/A	Conduct enforcement where necessary.
STORM WATER MANAGEMENT PLAN REQUIREMENTS							
SWMP BMP 5-1. Construction Plan Review	HAR-EE / Engineering Project Managers	Review 100% of construction plans for environmental impacts, permit applications, appropriate temporary BMPs, post-construction BMP considerations	1/1/14	See CD.17.b.iv.	✓	Replaced by CD.17.b.iv.	Continue construction plan reviews.
SWMP BMP 5-2. Construction Inspections	HAR-EE / Construction Managers	Inspect all construction sites every two weeks Oct – March and every two months otherwise.	1/1/14	See CD.17.b.iv.	✓	Replaced by CD.17.b.iv.	Continue construction inspections on active sites.
SWMP BMP 5-2. Construction Enforcement	HAR-EE	Ensure that deficiencies are reduced from the previous year.	1/1/14	The number of deficiencies has increased from the previous year. However, this is due to a new procedure which includes deficiencies noted verbally and on the inspection checklist.		Replaced by CD.17.b.v.	Conduct enforcement where necessary.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP BMP 5-2. Construction Inventory	HAR-EE	Ensure that 100% of construction sites, inspections, resolutions, and violations are recorded.	1/1/14	HAR-EE has maintained the inventory (Attachment 22).	✓	Replaced by CD.17.b.i.	Maintain inventory.
SWMP BMP 5-3. Public Reports	HAR-EE	Track public reports on construction illicit discharges.	1/1/14	No reports received.	✓	Combined with SWMP BMP 4-3. Hotline	Continue to track reports.
SWMP BMP 5-4. Construction Inspection & Plan Review Training	HAR-EE	1) Ensure that 100% of construction inspectors and plan reviewers are trained. 2) Ensure that 100% of construction sites have BMP trained managers.	1/1/14	1) 100% of inspectors were trained. (Attachment 12) 2) 100% of active construction sites were confirmed to have training per the third party inspections.	✓	Replaced by CD. 15.b., c., & d.	Conduct applicable training. Ensure that contractors conduct training on their sites.
SWMP BMP 5-4. Construction Training Distribution	HAR-EE / HAR-SI	Post the construction training on the website and ensure there are increased views from previous years.	1/1/14	Training slides were not posted on the website. HAR-EE is in the process of developing it into a training video.		Replaced by CD. 14.b.	Post training on website.

VI. Post-Construction Storm Water Management in New Development and Redevelopment

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CONSENT DECREE REQUIREMENTS							
CD.18.a.i.,- iii. New Development and Redevelopment Inventory	HAR-EE	By 5/4/15, create an inventory of construction projects from 5/19/03 and rank them according to retrofit potential.	11/5/14	Harbors has begun researching applicable projects and preparation of the inventory is underway.		N/A	Finalize inventory.
CD.18.a.iii. Retrofit Feasibility Scope	HAR-EE	By 8/2/15, draft a scope of the retrofit feasibility study and submit it to EPA and DOH for approval.	11/5/14	Preparation of the draft retrofit feasibility study scope is underway.		N/A	Finalize retrofit feasibility study scope.
CD.18.a.iii. Final Retrofit Study	HAR-EE	240 days after EPA and DOH's approval, complete the final retrofit study.	N/A	No work conducted this year. Work will commence once the Retrofit Feasibility Scope is approved.		N/A	Perform retrofit feasibility study and complete in early CY 2016.
CD.18.a.iv. Retrofit Construction	HAR-E	Four years after approval of Retrofit Feasibility Study, the construction will commence for the 3 highest ranked projects.	N/A	No work conducted this year. Retrofit projects will be identified and designed upon completion & approval of the Retrofit Feasibility Study.		N/A	None.
CD.18.b.i. Permanent BMP Plan Review	HAR-EE	Review all applicable construction projects to ensure they have considered the inclusion of permanent BMPs.	1/1/14	9 DOT projects and 1 tenant project was reviewed during 2014, which represents 100% of the projects. 2 projects (Pier 29 and KMR) have included permanent BMPs. (Attachment 24)	✓	N/A	Continue to conduct plan reviews.
CD.18.c. BMP Standards	HAR-EE	Adopt technical standards that govern permanent BMPs.	11/5/14	The City and County of Honolulu standards have been adopted in the Post-Construction Stormwater Management Manual.	✓	Completed.	None.

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.18.d. Permanent BMP Inspections	HAR-EE / Construction Managers	Conduct permanent BMP inspections prior to, during, and upon completion of permanent BMP installation.	11/5/14	47 inspections have been conducted for 5 active construction sites. However, these projects did not include permanent BMPs. (Attachment 22)	✓	N/A	Continue inspections where necessary.
CD.18.e. Permanent BMP Database	HAR-EE	By 11/5/14, implement inventory for permanent BMPs with links to map.	11/5/14	The inventory is included in Attachment 24. A new system for tracking permanent BMPs will be developed in association with the asset management system.	✓	N/A	Update the inventory as necessary.
CD.18.f.i. Permanent BMP Maintenance	HAR-EC / HAR-EE	By 11/5/14, ensure that all permanent BMPs have an O&M plan, monitoring plan where applicable, and ongoing maintenance.	11/5/14	One project on Pier 29 included trench drains with filtration products installed in 2012. The contractor provided an O&M manual. A monitoring plan was not applicable. Harbors is waiting for the contractor to complete maintenance and provide training to HAR-OCG employees before the BMP system is turned over.		N/A	Ensure the Pier 29 drains are maintained. Ensure maintenance on any other permanent BMPs installed.
CD.18.f.ii. Tenant Permanent BMPs	HAR-PM / HAR-EE	Ensure that tenant leases include verbiage about maintaining permanent BMPs installed by the tenant.	11/5/14	HAR-PM has revised the lease language to include tenant permanent BMP maintenance requirements, annual inspection, and annual submission of maintenance paperwork to Harbors. At this time, there are no tenants with permanent BMPs. (Attachment 30)	N/A	N/A	Ensure tenants comply with maintenance requirements if permanent BMPs are installed.
CD.18.g. Recurring Permanent BMP Inspections	HAR-EE / HAR-EC/ HAR-OCG	Inspect all permanent BMPs annually.	11/5/14	Inspections have been conducted of the Pier 29 drains and maintenance as required. The contractor has been notified to perform maintenance; however, it has not been completed.	✓	N/A	Inspect all permanent BMPs.

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP REQUIREMENTS							
SWMP BMP 6-1. Review Applications	HAR-EE	Review 100% of applications for NPDES and LID compliance.	1/1/14	See CD.18.b.i.	✓	Replaced by CD. 18.b.i.	Continue to review applications.
SWMP BMP 6-2. Lease Agreements	HAR-PM	Amend 100% of tenant leases to include the requirement for compliance with LIDS.	1/1/14	See CD.18.f.ii.	✓	Replaced by CD.18.f.ii.	Issue new leases with revised language.
SWMP BMP 6-3. Permanent BMP Identification	HAR-EE / HAR-E	Ensure that 100% of current BMPs are evaluated to determine if they comply with LID.	1/1/14	There were no new permanent BMPs identified during tenant inspections.	N/A	Removed since the initial evaluation is completed.	None.
SWMP BMP 6-3. Permanent BMP Implementation	HAR-EE / HAR-E	Ensure that 100% of potential pollutants are prevented from affecting runoff through the implementation of post-construction BMPs.	1/1/14	There were no new permanent BMPs identified during tenant inspections. Therefore, their efficiency could not be evaluated.	N/A	Replaced by CD.18.b.i. since BMP pollutant removal effectiveness is evaluated during plan review.	Continue construction plan reviews.
SWMP BMP 6-4. Permanent BMP Inventory	HAR-EE	Create a database for tracking permanent BMPs maintenance.	1/1/14	The inventory is included in Attachment 24. A new system for tracking permanent BMPs will be included as a part of the Asset Management System (AMS) currently being developed by the ACOE for Harbors.	✓	Replaced by CD.18.e.	Continue to inventory permanent BMPs.
SWMP BMP 6-4. Permanent BMP Maintenance	HAR-OCG	Ensure 100% of required maintenance is conducted on permanent BMPs.	1/1/14	See CD.18.f.i.		Replaced by CD.18.f.i.	Track maintenance on permanent BMPs.

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP BMP 6-4. Permanent BMP Inspections	HAR-EE / Construction Managers	Ensure that permanent BMPs are installed according to plan and are effective to the standard operating capacity at mitigating designated pollutants.	1/1/14	47 inspections have been conducted for 5 active construction sites. However, these projects did not include permanent BMPs. (Attachment 22)	✓	Replaced by CD.18.d.	Inspect permanent BMPs.
SWMP BMP 6-5. Post-Construction Education Materials	HAR-EE	Develop post-construction educational materials and distribute to 100% of tenants in the TSI mailing.	1/1/14	A post-construction BMP brochure was created and distributed at the Highways Construction Training (11/20/14) (Attachment 4).	✓	Distribute post-construction educational materials to 100% of tenants.	Provide a copy of the brochure during tenant inspections and training events.
SWMP BMP 6-5. Website	HAR-EE / HAR-SI	Ensure that website views have increased from previous years.	1/1/14	A link to the USEPA post-construction BMPs and the Harbors Post-Construction manual are available on the website. There were 997 people have visited the website in 2014.	✓	N/A	Add additional permanent BMP information to the website and track viewers.
SWMP BMP 6-5. Training	HAR-EE	Ensure that a greater number of employees are trained on permanent BMPs than the previous year.	1/1/14	Post-construction BMP information was included in training conducted on 3/31/14 and 5/22/14 and 59 people were trained. This is an increase from 2013 when 17 people were trained. (Attachment 12)	✓	Replaced by CD.15.d.	Conduct training on permanent BMPs.
Other Post-Construction Projects	HAR-OCG	Pier 1 Beautification Project	1/1/1	HAR-OCG crew hauled away over 600 tons of garbage from the Pier 1 seawall, including rusting metal, tires, construction debris, and general rubbish. Then 1700 linear feet of the seawall was transformed into a vegetated buffer zone. Photos available in Attachment 1.	✓	Evaluate other areas to beautify.	None.

VII. Pollution Prevention and Good Housekeeping

POLLUTION PREVENTION AND GOOD HOUSEKEEPING							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CONSENT DECREE REQUIREMENTS							
CD.20. Storm Sewer System Operation and Maintenance	HAR-O	By 12/5/14, submit a Storm Sewer System Operation and Maintenance Program (SSS O&M) to DOH and EPA.	11/5/14	The SSS O&M plan was submitted to DOH and EPA for review. Harbors is awaiting comments.	✓	N/A	Implement the SSS O&M Plan.
CD.20.a. Storm Sewer System Mapping	HAR-EE / HAR-EP	Within 180 days of Army Corps of Engineers (ACOE) development of a GIS layer, create a map that identifies all storm drainage features.	11/5/14	The ACOE has provided a draft of their harbors map (Attachment 6). Harbors has submitted a schedule to EPA and DOH to evaluate the condition of storm drain structures and the completeness of the ACOE map. Up-to-date information on the MS4 may be accessed electronically and Harbors will contact DOH to set up a user account to access the system.	✓	Update storm drain maps as necessary.	Perform field work to survey storm drains and update map as necessary.
CD.20.b. Asset Management System	HAR-EE / HAR-EP	Within 180 days of ACOE map completion, implement an asset management system (AMS).	N/A	Harbors is currently being assisted by the ACOE in the selection of a qualified software vendor to develop its AMS		N/A	Select an AMS program and implement.
CD.20.c. Storm Drain Inspections	HAR-O	Complete storm drain inspections as described in the SSS O&M plan.	N/A	Harbors is awaiting the approval of the SSS O&M plan before conducting formal drain inspections. However, informal inspections are currently conducted by Oahu District staff when cleaning or installing filter fabric in storm drains.		N/A	Begin documented inspections.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
CD.20.d. Storm Drain Cleaning	HAR-O	By 8/2/15, clean all inlets, pipes, and outfalls. Then ensure structures are cleaned at least every five years and more frequently for "hot spots."	N/A	Harbors is awaiting the approval of the SSS O&M plan, which includes a cleaning schedule and a definition of "hot spots." HAR-OCG did clean some drains that were reported by Pier Coordinators as needing maintenance and removed approximately 20 tons of debris. A summary is available in Attachment 25 and the field records are in Attachment 26. Note: records prior to June 2014 have been archived and are not included in these tallies.		N/A	Ensure that all appropriate structures are cleaned.
CD.20.d.ii. Rail Track Cleaning	Kalaeloa Barbers Point Harbor Tenants / HAR-OCB	Ensure that tenants develop and implement a cleaning schedule for the rail tracks.	11/5/14	The Kalaeloa Barbers Point Harbor District personnel ensure that the tenants have completed rail cleaning on a regular basis. During dry weather ORI inspections on May 28, 2014 and November 20, 2014, inspectors noted that it appeared rails had recently been cleaned.	✓	N/A	Ensure that tenants continue to clean rails.
SWMP REQUIREMENTS							
SWMP BMP 7-1. Street Sweeping	HAR-OM	Complete 100% of sweeping in areas designated on the schedule.	1/1/14	100% of scheduled sweeping was conducted and this removed 135 tons of waste. Note: the waste is stored in the back of the truck until disposal and may be mixed with wood waste. (Attachment 25)	✓	N/A	Continue sweeping in accordance with the schedule.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING							
MCM/BMP DESCRIPTION	RESPONSIBLE DEPT. / SECTION	BMP APPLIED/ MEASURABLE GOAL(S)	BMP START DATE	YEAR 12 MILESTONES/PROGRESS ON GOAL(S)	COMPLETED IN 2014?	NEW OR REVISED GOAL	PLANNED ACTIVITIES FOR YEAR 13
SWMP BMP 7-1. Storm Drain Cleaning	HAR-OM / Tenants	Ensure that 100% of drainage systems that have been designated as "urgent" have been cleaned.	1/1/14	Although the designation of "urgent" is no longer in use, Harbors has continued to clean drains reported to them. Drains are reported by tenants, Marine Cargo Specialists, or other parties as requiring maintenance. During 2014, approximately 20 tons of debris was removed. (Attachment 25 and 26). Note: records prior to June 2014 have been archived and are not included in these tallies.	✓	Replaced by CD.20.d.	None.
SWMP BMP 7-1. Tenant Educational Materials	HAR-EE	Distribute educational materials to 100% of tenants.	1/1/14	Training materials were available during the tenant training, mailed with the training invitation, provided during inspections, and are available online. 100% of tenants have been provided with materials or instructed to obtain them from the website.	✓	Replaced by CD.14.g.	Continue to distribute materials.
SWMP BMP 7-1. Employee Awareness Training	HAR-EE	Ensure that 100% of maintenance staff has been trained on pollution prevention.	1/1/14	Training was provided to maintenance personnel and 71 individuals in the Oahu District were trained. The 4 individuals who could not be present during the training date were provided with the training materials. Therefore, 100% of personnel have been trained. The average score on the survey was 93% and the question most frequently missed involved spill designations. This will be the focus of future educational efforts. (Attachment 13)	✓	Replaced by CD.15.a.	Continue to train staff.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING							
MCM/BMP DESCRIPTION	**RESPONSIBLE DEPT. / SECTION**	**BMP APPLIED/ MEASURABLE GOAL(S)**	**BMP START DATE**	**YEAR 12 MILESTONES/PROGRESS ON GOAL(S)**	**COMPLETED IN 2014?**	**NEW OR REVISED GOAL**	**PLANNED ACTIVITIES FOR YEAR 13**
SWMP BMP 7-2. Wash Racks	HAR-EE	Review 100% of applications for wash rack use.	1/1/14	Applications were received and approved from: • Young Brothers, Ltd. • McCabe Hamilton & Renny Co. Ltd • Matson Navigation Company • Horizon Lines, Inc. • Hawaii Stevedores, Inc.	✓	N/A	Continue to review applications as received.
SWMP BMP 7-2. Dry Wells	HAR-EE	Review 100% of applications for dry wells and/or infiltration sinks.	1/1/14	No applications received.	N/A	N/A	Continue to review applications as received.
SWMP BMP 7-3. Tenant Training Materials	HAR-EE	Ensure that 100% of tenants are in receipt of educational materials.	1/1/14	All tenants have access to the Harbors website, which includes information on BMPs, storm water plans, and training.	✓	Replaced by CD.14.g.	Ensure tenants access educational materials.
SWMP BMP 7-3. Maintenance Training	HAR-EE	Ensure 100% of maintenance employees are trained.	1/1/14	See CD.15.a.	✓	Replaced by CD.15.a.	Ensure maintenance employees are trained.

PART IV --- SUMMARY OF INFORMATION COLLECTED AND ANALYZED

Information collected and analyzed is included as attachments on CD. Attachments include the following:

General

1. Photosheets
2. Consent Decree Compliance Tracker
3. HDOT Reorganization

Public Education, Outreach, and Involvement

4. New Educational Materials
    a. Storm Drain Protection BMP Flier
    b. Suggested Vendor Handout
    c. Construction Brochure
    d. Post-Construction Brochure
5. Newspaper Advertisement
6. MS4 Maps *(available on GIS at http://www.arcgis.com/home/. Please contact Harbors (808) 587-1962 for access as deemed necessary.)
    a. Storm Drain Map Books (HNL & KBPH)
    b. ORI Storm Drain Research for Mapping
7. Storm Drain Labeling
    a. Medallions Ordered
    b. Photo of Stenciled Drain
8. Educational Signs Location Maps

Training

9. Tenant Environmental Manager of the Year (TEMY) Award
10. Tenant Training
    a. Presentation
    b. Sign-In Sheets
    c. Training Feedback Summary
11. Tenant Survey
    a. Summary of Survey Results
    b. Completed Surveys
12. Construction & Post-Construction Training
    a. Presentation
    b. Sign-In Sheets
    c. Summary of Survey Results
    d. Completed Surveys
13. Maintenance Worker Training
    a. Presentation
    b. Summary of Training
    c. Sign-In Sheets and Surveys
14. Division Employee Training
    a. Training Fact Sheet
    b. Summary of Survey Results
15. IDDE Training Presentation
16. Inspector Training

a. Tenant Inspection Presentation
b. ORI Inspection Presentation
c. On-The-Job Training Summary

Illicit Discharge Detection and Elimination

17. Tenant Risk Ranking and Inspection Summary
18. Tenant Illicit Discharge Investigations
19. SHOT Form IDDE Investigations
20. Outfall Prioritization Summary
21. ORI Forms
    a. Dry Weather – Honolulu Harbor
    b. Dry Weather – Keehi Industrial Park Area (KIPA)
    c. Dry Weather – Kalaeloa Barbers Point Harbor (KBPH)
    d. Wet Weather

Construction / Post-Construction

22. Active Construction Projects Inventory and Inspection Summary
23. Construction Plan Review Summary
24. Permanent BMP Plan Review and Inventory

Pollution Prevention and Good Housekeeping

25. Baseyard Waste Disposal Summaries
26. HAR-OCG Storm Drain Maintenance Field Records
27. HAR-OCG Storm Drain Inspection Field Records
28. Spill Log

Other

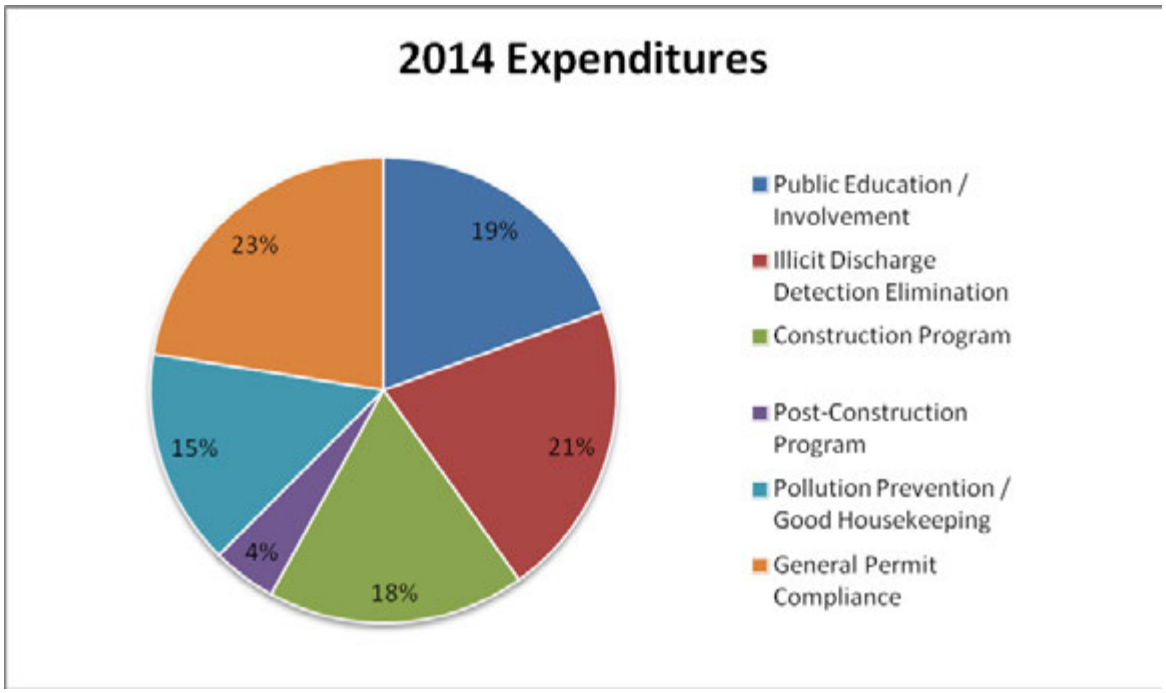
29. Trainer Qualifications
30. Updated Lease Agreements

PART V --- PROGRAM OUTPUTS & ACCOMPLISHMENTS

1. Programmatic

	PREFERRED UNITS	RESPONSE
Storm water management position created/staffed	(y/n)	Y
Annual program budget/expenditures* ('Best efforts' estimates of 2014 expenditures)		
▪ Public Education and Outreach & Public Participation and Involvement Program expenditures	($)	$220,700
▪ Illicit Discharge / Illegal Connection BMP Program expenditures	($)	$234,300
▪ Construction Site Runoff Control expenditures	($)	$202,600
▪ Post-Construction Storm Water Management in New Development and Re-development Programs expenditures**	($)	$50,600
▪ Pollution Prevention and Good Housekeeping BMP Program expenditures	($)	$170,100
▪ General Permit Compliance expenditures	($)	$255,200
▪ Program Total Expenditures	($)	$1,133,500
Funding mechanisms(s) - (Routine Maintenance Fund, Special Maintenance, Major Maintenance, Service Project, Equipment Acquisition, Capital Improvement Project)	($)	Routine and Special Maintenance Funds, CIP

Notes: Data is from the 2014 calendar year.
*Expenditures from Harbors employees have been approximately based on the estimated percentage of time that they worked on stormwater related tasks.
**Permanent BMP plan reviews and inspections are accounted for under the Construction Site Runoff Control category since they are completed in conjunction with construction related tasks.



Data Analysis

The totals represented above were derived from several sources. Specific information was available for two consultant contracts active during 2014. However, funding representative of time spent by Harbors employees and related material expenses on stormwater compliance tasks had to be estimated since it was not tracked separately. In future years, Harbors will institute accounting procedures to capture stormwater program costs plans to track employee costs more closely in 2015.

As expected during the initial, formative Consent Decree year, about half of the 2014 expenditures went to educating the public, tenants, contractors, and employees on the program changes and rule requirements and general permit compliance, which included preparing the Consent Decree documents and getting buy in from all parties. Relatively speaking, the Construction Site Stormwater Runoff Control and the Post-Construction Stormwater Management components of the SWMP were not as demanding in 2014. We can expect to spending increases in these two areas as construction projects pick up in coming years and post-construction BMP requirements grow as well. On the other hand, we should see a decrease in General Environmental Compliance expenditures as more of the Consent Decree program policy and manual submittals are approved for implementation.

Harbors finds that the 2014 distribution of funding was adequate to address current needs. In the coming year, Harbors expects that overall program expenditures will increase to due to the additional requirements from the Consent Decree.

2. Education, Involvement, and Training

	PREFERRED UNITS	RESPONSE
Estimated number of people reached by education program(s)*	(# or %)	470
▪ Tenant General Stormwater BMP Training	(# or %)	101 (81.39%)
▪ Employee Stormwater Training	(# or %)	310 (88%)
▪ Construction & Post-Construction Training	(# or %)	59
Average score on the environmental knowledge survey	(%)	91.29
▪ Tenant Storm Water Training	(%)	95.06
▪ Employee Survey	(%)	87.34
▪ EMS Employee Survey	(%)	92.8
▪ Construction Inspector and Plan Reviewer Training	(%)	90
Tenants who had positive view of the training	(%)	93
Visitors to the website	(#)	1,560
Adopt-A-Harbor volunteers	(#)	58
Public Education Signs	(#)	68
▪ Honolulu Harbor	(#)	63
▪ Kalaeloa Barbers Point Harbor	(#)	5
Storm Drain Inlets Stenciled	(#)	103

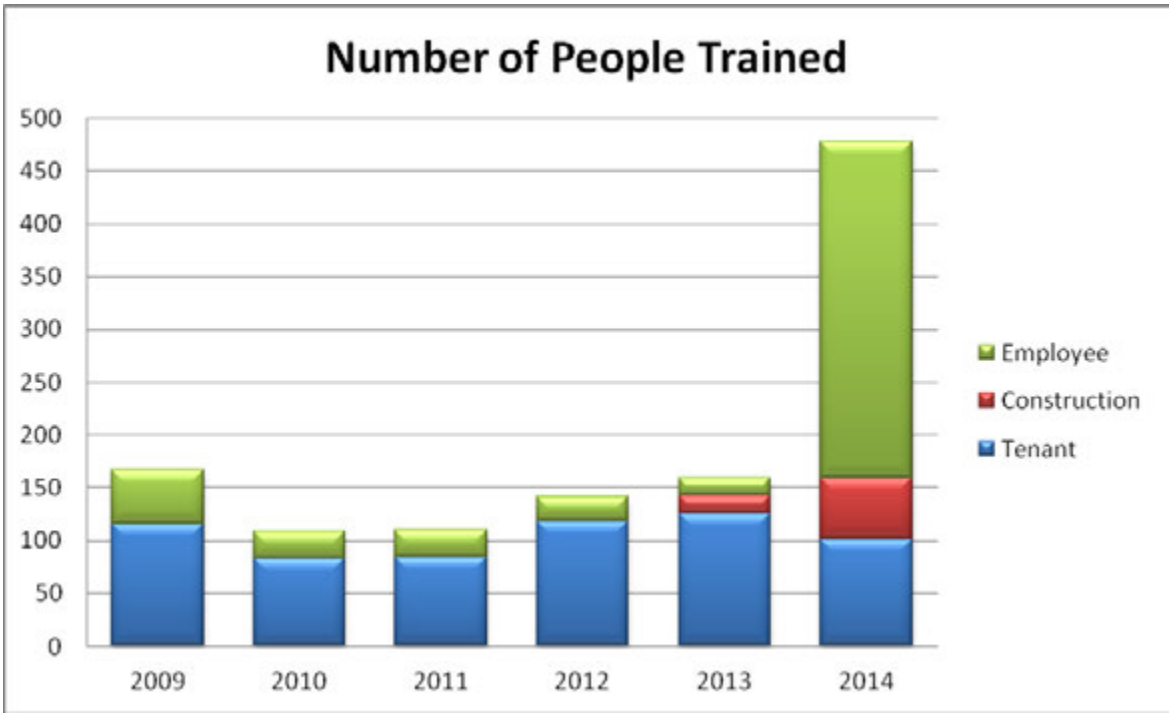
Notes: Data is from the 2014 calendar year.
*Some individuals may have been trained at two or more of the training sessions; however, they were counted separately.

Harbors has significantly increased its efforts toward public education and involvement in 2014 since recognizing that increased education has had the greatest impact on preventing stormwater

pollution.

As depicted in the graph below, tenant training has continued to affect roughly the same number of people whereas construction and employee training has been significantly increased. The employee training includes classroom presentations conducted for maintenance workers, the fact sheet and survey sent to Harbors office employees, and inspector training. Note: Inspectors were provided with both classroom and on-the-job training. Further, Harbors expects to reach even more individuals in the coming year by making the construction and IDDE training into DVDs which can be viewed online.

The training sessions have been deemed effective based on the quiz scores that were achieved. On average, individuals who were trained were able to score a 91%, which shows competency on the topic. In general, the questions most commonly missed included the definition of illicit discharge and how to respond as well as questions in regards to enforcement. These topics will be highlighted in the 2015 training sessions.



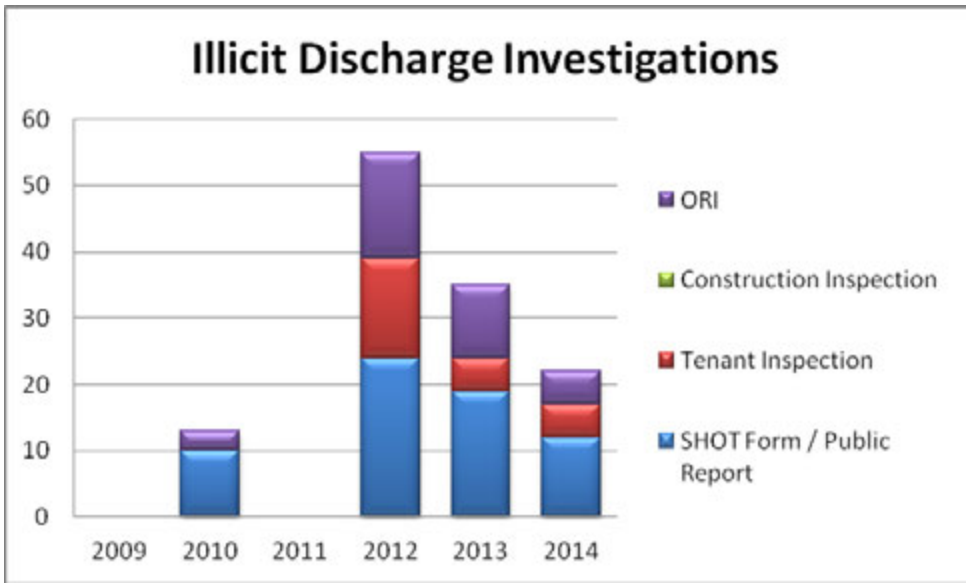
3. Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with check)					
▪ Illicit Discharge Detection & Elimination	✓				
▪ Construction and Construction Related Activities					✓
▪ Post-Development Storm Water Management					✓
Accompanying Regulation Status (indicate with check)					
▪ Illicit Discharge Detection & Elimination	✓				
▪ Construction and Construction Related Activities	✓				
▪ Post-Development Storm Water Management	✓				

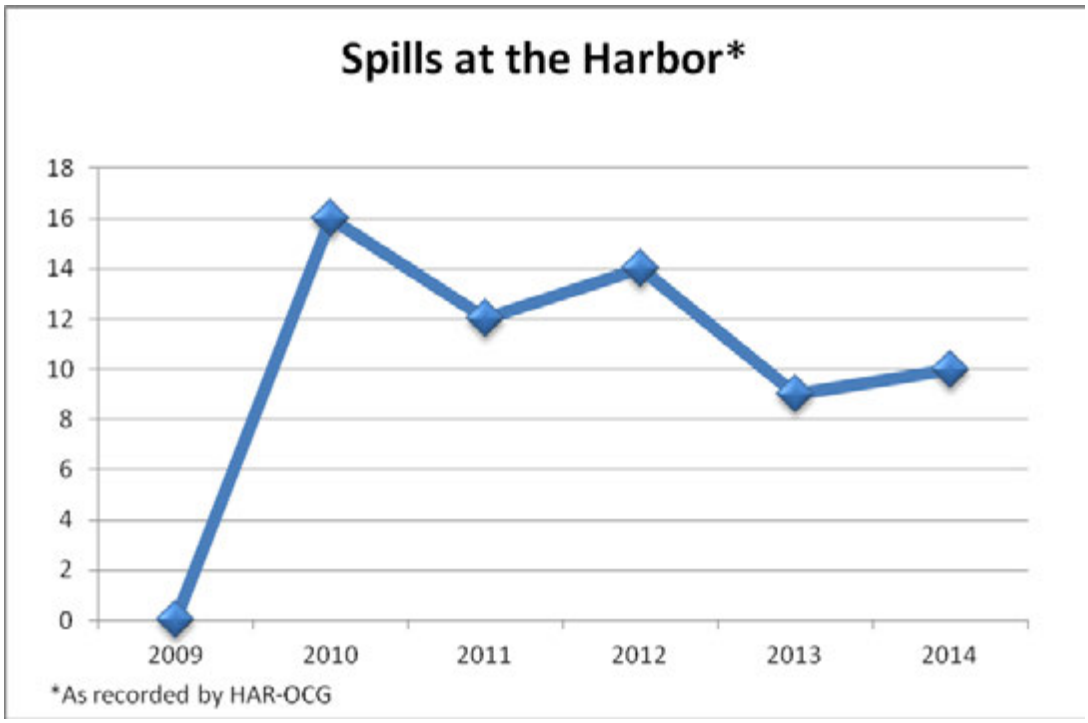
4. Mapping and Illicit Discharges

	Preferred Units	Response
System-wide mapping complete (complete storm sewer infrastructure)	(%)	70
Mapping method(s)		
▪ Paper/Mylar	(%)	70
▪ GIS	(%)	70
Outfalls required to be inspected/screening	(# or %)	100%
▪ Honolulu Harbor	(#)	115
▪ Kalaeloa Barbers Point Harbor	(#)	29
Illicit discharges investigated in 2014	(#)	22
▪ SHOT Forms / Public Reports	(#)	12
▪ Tenant Inspections	(#)	5
▪ Construction Inspections	(#)	0
▪ Outfall Reconnaissance	(#)	5
Illicit discharges investigated since 2010	(#)	90
% of population on sewer	(%)	100
% of population on septic systems	(%)	0
Complaints/concerns received from public	(#)	0
Spill Events*	(#)	10

Notes: Data is from the 2014 calendar year.
*As recorded by Harbors Ground Maintenance (HAR-OCG).



The number of illicit discharges investigated has decreased in the past year (graph above). This is likely due to increased efforts by tenants to implement BMPs and control potential sources of pollutants. The efforts may also be initiated by the greater presence of Harbors Environmental personnel including inspectors and pier coordinators (Marine Cargo Specialists). Additionally, the majority of these potential illicit discharges were identified by Harbors employees during inspections or reports from the Marine Traffice Control Tower. Greater efforts will be made in 2015 to advertise the hotline to the public so that they can assist in reporting potential illicit discharges.



Harbors spill events have remained fairly consistent at between 9 and 16 per year (Attachment 28). This spill rate may be indicative of the rate that accidents will occur and may not change greatly over time. However, it is important to note that all spills are promptly addressed. Further, Harbors has also noted a greater response from tenants and employees when a spill occurs. In particular, personnel have made greater efforts to protect storm drains and water ways from spilled materials.

5. Harbors Tenants

	PREFERRED UNITS	RESPONSE
Total Tenants	(#)	88
▪ Low Risk Rank	(#)	53
▪ Medium Risk Rank	(#)	27
▪ High Risk Rank	(#)	8
Number of Tenant Inspections	(#)	102
▪ New	(#)	6
▪ Regular	(#)	55
▪ Final	(#)	4
▪ Site Reconnaissance	(#)	37
Number of Enforcement Actions	(#)	39

Notes: Data is from the 2014 calendar year.

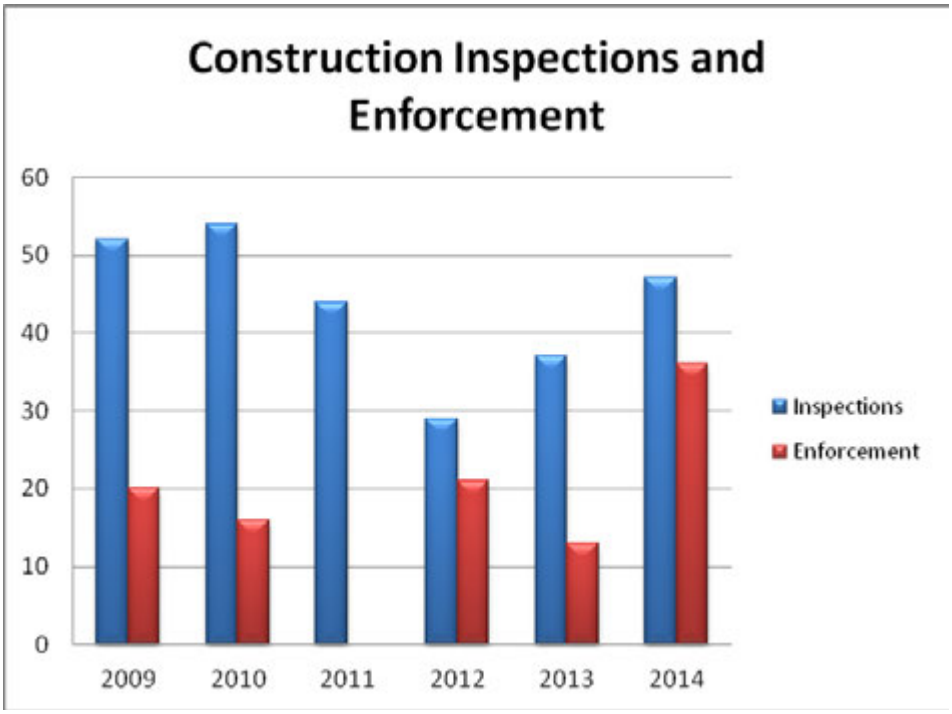
The risk ranking of the majority of tenants at Honolulu and Kalaeloa Barbers Point Harbors is low due to activities being conducted under cover or on a small scale. The low ranked tenants are inspected every five years; however, a site reconnaissance is conducted annually. During the site reconnaissance, one new tenant was discovered and an inspection was conducted promptly thereafter. The remainder of low ranked tenants all appeared to have similar operations with no obvious signs of illicit discharge. The medium tenants are inspected annually and the high risk tenants are inspected semi-annually. By separating the tenants into these categories, it allows inspectors to focus more attention on those with the greatest potential to contribute pollutants to the MS4.

Specifically for 2014, the number of violations was higher than previous years. However, all enforcement actions were resolved after documentation in the inspection form. This shows willingness on the tenant's behalf to comply with environmental regulations. In addition, the majority of violations were minor and related to small oil drips, labeling, or storage practices that were easily rectified.

6. Construction

	PREFERRED UNITS	RESPONSE
Total number of construction plan reviews	(#)	10
▪ DOT	(#)	9
▪ Tenant	(#)	1
Total number of plan reviews requiring NGPC	(#)	3
Number of Harbors active construction sites	(#)	5
▪ DOT	(#)	3
▪ Tenant	(#)	2
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	47
Enforcement actions	(# or %)	36
▪ Written warning	(#)	36
▪ Notice of Apparent Violation (NAV)	(#)	0
▪ Issuance of stop work order and summons/citations	(#)	0
▪ Referral to DOH	(#)	0
▪ Fines collected	(# and $)	0

Notes: Data is from the 2014 calendar year.



Harbors performed more inspections in 2014 and as a result documented an increase in enforcement actions. However, all enforcement actions involved written warnings in the form of documenation on the inspection checklist. Many of the deficiencies related to minor BMP maintenance such as replacing filter fabric or realigning BMP berms; which would not immediately result in an illicit discharge. Further, contractors were learning to incorporate the new rules from the revised Hawaii Administrative Rules (HAR) 11-55, App C and inspectors noted some paperwork deficiencies as a result. All deficiencies were able to be resolved after they were initially noted on the inspection checklist.

7. Post-Development Storm Water Management

	PREFERRED UNITS	RESPONSE
Estimated percentage of development/redevelopment projects adequately regulated for post-construction storm water control	(%)	100%
Number of new permanent BMPs	(#)	0
Site inspections (for proper BMP installation & operation) completed	(# or %)	N/A
BMP maintenance required through lease agreements, due diligence & property covenants, right of way/easements, etc.	(y/n)	Y

Notes: Data is from the 2014 calendar year.

8. Operations and Maintenance

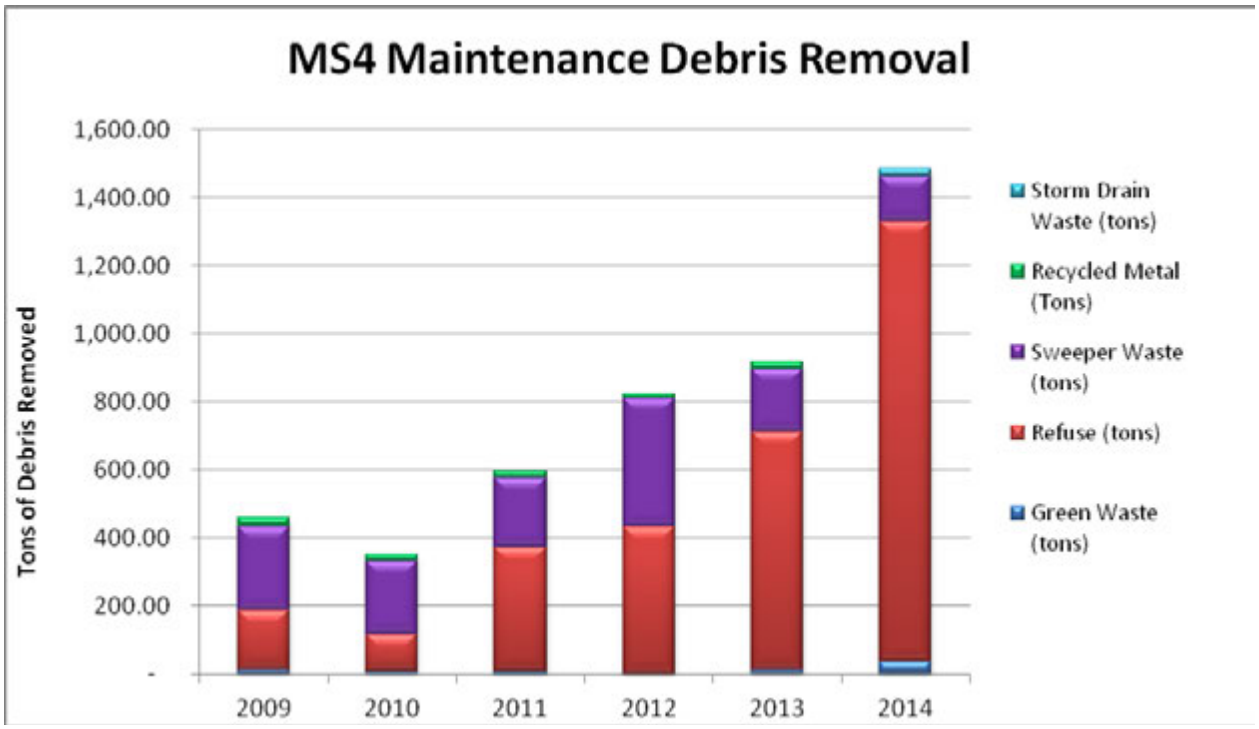
	PREFERRED UNITS	RESPONSE
Average frequency of catch basin cleaning	(times/year)	1
Number of storm drain cleanings	(#)	617
Quantity of screenings/debris removed from storm sewer infrastructure*	(tons or cubic feet)	818
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill (H-Power if wood)
Cleaning Equipment		
▪ Vacuum truck(s) owned/leased by Harbors	(#)	0
▪ Vacuum trucks specified in contracts	(y/n)	Y
▪ % Structures cleaned with vacuum	(%)	0
▪ % Structures cleaned with manual labor	(%)	100
Sweeping Equipment		
▪ Rotary brush street sweepers owned/leased	(#)	4
▪ Vacuum street sweepers owned/leased	(#)	0
▪ Vacuum street sweepers specified in contracts	(y/n)	N
Average frequency of street sweeping	(times/week)	2
Quantity of sand/debris collected by sweeping	(lbs. or tons or cubic volume)	134.81 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Abandoned Items Disposed		
▪ Green waste	(tons)	36.09
▪ Refuse	(tons)	1293.12
▪ Used batteries	(#)	95

	PREFERRED UNITS	RESPONSE
▪ Electronic waste	(#)	60

Notes: Data is from the 2014 calendar year.
*Data is from July – December 2014.

Harbors Maintenance Unit has made significant efforts to remove wastes from the MS4 so that they will not be discharged to the harbor. Specificially, the pier coordinators (Marine Cargo Specialists) preform a bimonthly inspection of the storm drains and piers. Then, they report to the Maintenance Unit when a drain requires cleaning or a waste item removed. Note: for 2015 a contractor has been hired to clean the drains.

Per the graph below, the amount of refuse removed has increased for the year 2014. This due to the increase of the inspections as well as a special project initiated on Pier 1. Specifically, actions were taken to remove accumulated debris and create a vegetated buffer between the pier activities and the harbor.



Attachment 1. Photosheets

HARBORS ACTIVITIES IN 2014

TENANT INSPECTIONS

Photo 1: Inspecting material storage area at Hawaiian Cement's location at Kalaeloa Barber's Point Harbor on October 19, 2014.

Photo 2: Inspectors noted absorbent pads used under a vehicle at Young Brothers facility in Honolulu Harbor on December 12, 2014.

HARBORS ACTIVITIES IN 2014

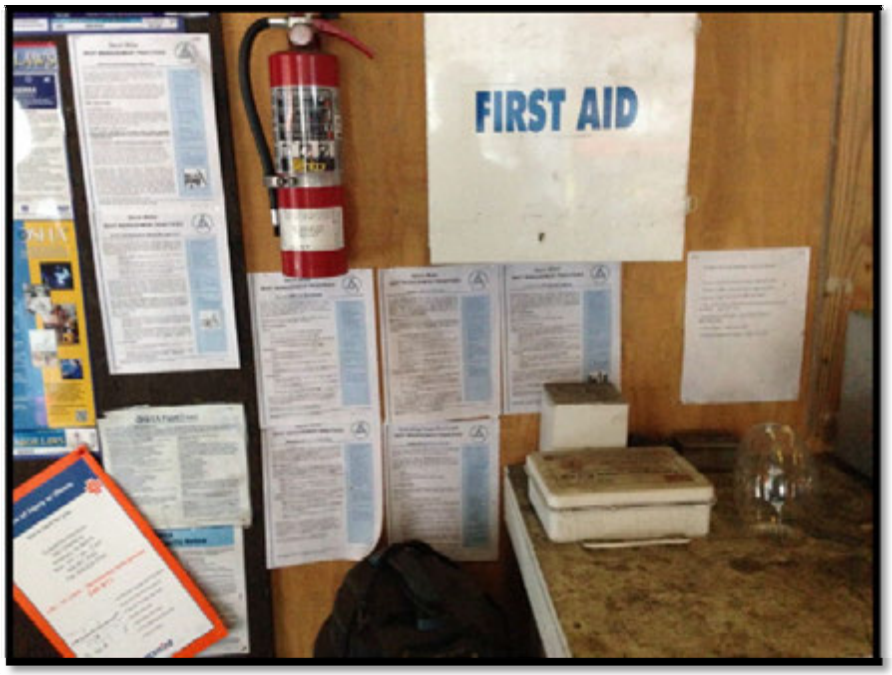


Photo 3: Harbors stormwater BMP fliers were posted in the maintenance shop at Sea Engineering and noted during an inspection conducted on November 25, 2014.

Photo 4: Inspecting Matson's stormwater sampling drain during a tenant inspection on June 18, 2014.

HARBORS ACTIVITIES IN 2014

Photo 5: Hazardous material storage locker inspected on October 14, 2014 at Hawaiian Ice.

Photo 6: Hazardous waste storage area inspected on December 2, 2014 at Matson.

HARBORS ACTIVITIES IN 2014

CONSTRUCTION INSPECTIONS

Photo 1: Perimeter control BMP being inspected on July 1, 2014 at Pier 31, Honolulu Harbor.

Photo 2: Drain inlet protection inspected during an April 9, 2014 construction inspection at Pier 35, Honolulu Harbor.

Photo 3: Perimeter controls installed, maintained, and functioning during an inspection conducted on June 17, 2014 at Pier 35, Honolulu Harbor.

Photo 4: Drain inlet protection devices inspected at the Kapalama Military Reservation construction project, Pier 42, Honolulu Harbor on October 2, 2014.

HARBORS ACTIVITIES IN 2014

OUTFALL RECONNAISSANCE INVENTORY INSPECTIONS

Photo 1: A BMP device on a grated drain inlet inspected during the upstream investigation conducted on June 6, 2014 at Honolulu Harbor. Above the grated drain inlet is a Harbors public education sign.

Photo 2: Harbors personnel removing a drain inlet grate during the upstream investigation conducted on June 6, 2014 at Honolulu Harbor.

HARBORS ACTIVITIES IN 2014

Photo 3: Inspecting outfalls from the water on April 16, 2014 at Honolulu Harbor.

Photo 4: Inspecting outfalls from the water on April 16, 2014 at Honolulu Harbor.

HARBORS ACTIVITIES IN 2014

VOLUNTEER EVENTS

Photo 1: Group photo of ETC volunteers during the September 20, 2014 Adopt-A-Harbor event at Honolulu Harbor.

Photo 2: Cleaning and preparing area to be stenciled during the September 20, 2014 Adopt-A-Harbor event at Honolulu Harbor.

HARBORS ACTIVITIES IN 2014

Photo 3: Stenciling being conducted during the September 20, 2014 Adopt-A-Harbor event at Honolulu Harbor.

Photo 4: Finished stencil of Harbors Dump No Waste signage during the September 20, 2014 Adopt-A-Harbor event at Honolulu Harbor.

HARBORS ACTIVITIES IN 2014

TRAINING EVENTS

Photo 1: Randal Leong speaking at the Harbors Tenant Training event held on August 28, 2014.

Photo 2: View of attendees during the Harbors Tenant Training event held on August 28, 2014.

Sanitation and Grounds Unit

Pier 1 Seawall Clean Up, Buffer Zone and Beautification Project

START- UP

Rusty Engine parts, plastics

Broken Pipes

Abandoned tires

Before Planting & Bio Sock Placement
March 16, 2014

Phase 1, March 16, 2014. Planted 1/3 of Pier 1 with Akulikuli & Naupaka.

Phase 2 Planting May 2, 2014. Groundskeeper Tony DelaCruz directing planting & watering.

Current view of Planting phases 1 & 2
Photo taken on June 3 , 2014

Planting phase 3 to be completed
June 22, 2014

Attachment 2. Consent Decree Compliance Tracker

HDOT Consent Decree Gantt Chart

ID	CD No.	Task Name	Duration	Calendar Days	Start	Finish	Pred	Resource Names
1		Lodge of Consent Decree	5 days	7	Thu 9/18/14	Wed 9/24/14		
2		Public Comment for Consent Decree	22 days	30	Thu 9/25/14	Fri 10/24/14	1	
3		**Entry of Consent Decree**	**1 day**	**1**	**Wed 11/5/14**	**Wed 11/5/14**	**2**	
4		**5 Pollution Prevention Plan (PPP) - Stockpiles @ Kalaeloa BP**	**337 days**	**0**	**Wed 9/24/14**	**Fri 1/1/16**		**HAR-EE**
5		**5.a Submit PPP for EPA & HDOH approval**	**33 days**	**43**	**Wed 9/24/14**	**Wed 11/5/14**		**HAR-EE/AG**
6		**5.b Implement final stabilization plan**	**7 days**	**9**	**Thu 11/6/14**	**Fri 11/14/14**	**5**	**HAR-EE**
7		Stockpile Management & Disposal Program	264 days	1	Thu 1/1/15	Fri 1/1/16		HAR-PM/EE
8		Topographic survey & soil sampling	30 days	41	Thu 1/1/15	Tue 2/10/15		WSI
9		Marketing Analysis/Plan & Interim Report	30 days	42	Wed 2/11/15	Tue 3/24/15	8	WSI
10		Advertise notice, conduct auction & issue land license(s)	65 days	90	Wed 3/25/15	Mon 6/22/15	9	HAR-PM
11		Manage remaining stockpiles	234 days	325	Wed 2/11/15	Fri 1/1/16		HAR-EE/EM
12		**10 HDOT Organization Structure**	**130 days?**	**180**	Thu 11/6/14	**Mon 5/4/15**	**3**	**ADMIN**
13		10.a HDOT maintain direct oversight of OEC staff & coordination w/all divisions	1 day?	1	Thu 11/6/14	Thu 11/6/14		ADMIN
14		10.b Reorganize current Office of Special Conmpliance to OEC	130 days	180	Thu 11/6/14	Mon 5/4/15	3	ADMIN
15		10.c Ensure OEC staff has authority & responsibility to oversee environmental	11 days?	89	Thu 11/6/14	Mon 2/2/15		ADMIN
16		10.d OEC staff shall perform division audits in accordance w/Appendix A	1 day?	1	Thu 11/6/14	Thu 11/6/14		ADMIN
17		**11 Stormwater Management Plan (SWMP)**	**102 days**	**1**	**Tue 11/11/14**	**Tue 3/31/15**	**3**	**HAR-EE**
18		11.a.i Modify combined SWMP and provide to EPA & HDOH	65 days	88	Tue 11/11/14	Fri 2/6/15	3	HAR-EE/WSI
19		11.a.ii Post revised SWMP on Harbors website & 45-day comment period	37 days	51	Mon 2/9/15	Tue 3/31/15	18	HAR-EE/WSI
20		12 Implementation of SWMP by end of 45-day comment period	30 days	42	Wed 2/18/15	Tue 3/31/15		HAR-EE
21		**13 Annual Compliance Report (ACR)**	**51 days**	**129**	**Mon 12/15/14**	**Fri 2/20/15**		**HAR-EE**
22		13.a Develop qualitative SWMP implementation assessment	51 days	68	Mon 12/15/14	Fri 2/20/15		HAR-EE/ETC
23		13.b Develop budget broken down by major SWMP components	24 days	32	Mon 12/15/14	Thu 1/15/15		HAR-EE
24		13.c Prepare discussion of SWMP changes & final report	36 days	47	Mon 12/15/14	Fri 1/30/15		HAR-EE/ETC
25		**14 Education, Participation & Outreach**	**92 days**	**0**	**Wed 9/24/14**	**Mon 1/26/15**		**HAR-EE**
26		**14.a Improve Awareness Message/Program Branding & Integratio**	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
27		14.a.i Develop, integrate & promote stormwater awareness message	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
28		14.a.ii Disseminate 3 forms of stormwater awareness info to Tenants & public	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
29		14.a.ii.1) Continue to hold annual Tenant SWPP Awareness Training	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
30		14.a.ii.4 Place SWMP advertisement in local newspaper	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
31		**14.b Enhanced Stormwater Management (SWM) Website**	26 days	0	Wed 9/24/14	Mon 10/27/14		HAR-SI/EE
35		**14.c Signage and Inlet Stenciling**	92 days	1	Wed 9/24/14	Mon 1/26/15		HAR-O
36		14.c.i Instal signs prohibiting dumping of pollutants	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-O
37		14.c.ii Stencil all storm drain inlets on Harbor Property	71 days	123	Thu 10/23/14	Mon 1/26/15		HAR-O
38		14.c.ii.1) Spray paint stencil rough surface inlets	66 days	90	Thu 10/23/14	Tue 1/20/15		HAR-O
39		14.c.ii.2) Order & manufacture curb & metal markers	33 days	45	Tue 10/28/14	Thu 12/11/14		HAR-EE/VDR
40		14.c.ii.3) Install curb markers on smooth surface inlets & metal grates	33 days	46	Fri 12/12/14	Mon 1/26/15	39	HAR-O
41		14.d Minimum Best Management Practice (BMP) Guidance	1 day	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
42		14.d.i Develop set of BMP information sheets for common Tenant activities	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
43		14.d.ii Include minimum BMPs in Tenant leases & RPs upon renewal	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-PM/EE
44		14.d.iii Develop recommended BMPs for Vessel Operators	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-O
45		14.e Enhanced Tenant Inventory	0 days	0	Mon 10/27/14	Mon 10/27/14		HAR-PM
46		14.e.i Maintain an electronic inventory of Tenants	0 days	0	Mon 10/27/14	Mon 10/27/14		HAR-PM
47		14.f Tenant Survey	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
48		14.f.i Provide annual survey questionnaire to assess Tenant knowledge	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
49		14.f.ii Update Tenant training materials from survey results	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
50		14.g Educational Materials for Tenants	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
51		14.g.i Provide educational materials to Tenants	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
52		14.h New Tenant Awareness Package and Site Visit	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
53		14.h.i Develop New Tenant Information Package	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
54		14.h.ii Commence New Tenant inspections	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
55		15 Employee Training	76 days	0	Wed 9/24/14	Mon 1/5/15		HAR-EE/ETC
56		15.a Employee Survey and Awareness Training	5 days	0	Wed 9/24/14	Tue 9/30/14		HAR-EE/ETC
59		15.b Illicit Discharge Detection and Elimination Program Training	76 days	1	Wed 9/24/14	Mon 1/5/15		HAR-EE/O
60		15.b.i Provide annual Illicit Discharge D&E Program training for Tenants	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
61		15.b.ii Conduct annual Illicit Discharge D&E procedures for Marine Cargo Specialists, Harb	40 days	56	Thu 11/6/14	Wed 12/31/14		HAR-EE/O
62		15.b.iii Annual Tenant Inspection staff training will include risk ranking, BMPs & inspection p	43 days	61	Thu 11/6/14	Mon 1/5/15		HAR-EE
63		15.b.iii Annual Outfall Reconnaissance inventory staff training requirements	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
64		15.c Construction Site Runoff Control (CSRC) Program Training	68 days	87	Wed 10/1/14	Wed 12/31/14		HAR-EE/ETC
65		15.c.i Specialized training for staff & consultants with CSRC implementation duties by EPA	68 days	92	Wed 10/1/14	Wed 12/31/14		HAR-EE/ETC
66		15.c.i Submit name & qualifications of consultant for EPA approval.	4 days	6	Wed 10/1/14	Mon 10/6/14		HAR-EE/ETC
67		15.d Post-Construction Stormwater Management (PCSWM) Program Training	65 days	87	Wed 10/1/14	Fri 12/26/14		HAR-EE/ETC
68		15.d.i Specialized training for staff & consultants to implement PCSWM program	65 days	87	Wed 10/1/14	Fri 12/26/14		HAR-EE/ETC
69		15.d.i Submit name & qualifications of consultant for EPA approval.	4 days	6	Wed 10/1/14	Mon 10/6/14		HAR-EE/ETC
70		16 Illicit Discharge Detection and Elimination	121 days	1	Wed 9/24/14	Fri 3/6/15		HAR-EE/O
71		16.a Develop & promote list of illicit discharge examples contributing significant	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
72		16.b Site Assessments	121 days	0	Wed 9/24/14	Fri 3/6/15		HAR-EE
73		16.b.i Conduct site assessments of high-risk areas	22 days	30	Wed 9/24/14	Thu 10/23/14		HAR-EE
74		16.b.ii Provide outreach activities during site assessments.	22 days	28	Fri 10/3/14	Thu 10/30/14		HAR-EE
75		16.b.iii Respond to violations found during assessments & initiate enforcement as needed.	22 days	30	Thu 2/5/15	Fri 3/6/15		HAR-EE
76		16.c Outfall Inspections	73 days	0	Wed 9/24/14	Wed 12/31/14		HAR-EE/ETC
77		16.c.i Implement Outfall Reconnaissance Inventory (ORI) Plan	73 days	80	Wed 9/24/14	Wed 12/31/14		HAR-EE/ETC
78		16.c.i.1) Conduct dry weather outfall inspections every 2 years	73 days	99	Wed 9/24/14	Wed 12/31/14		HAR-EE/ETC
79		16.c.i.2) Conduct wet weather outfall inspections per ORI Plan	0 days	0	Wed 12/31/14	Wed 12/31/14		HAR-EE
80		16.c.ii Create & maintain records of dry & wet weather observations	30 days	42	Thu 11/20/14	Wed 12/31/14		HAR-EE/ETC
81		16.d Illicit Discharge Tracking and Elimination	0 days	0	Wed 12/31/14	Wed 12/31/14		HAR-EE
82		16.e Tenant Inspections	94 days	1	Wed 9/24/14	Wed 1/28/15		HAR-EE/ETC
83		16.e.i Implement Tenant inspection manual & report changes in ACR	64 days	87	Mon 11/3/14	Wed 1/28/15		HAR-EE/ETC
84		16.e.ii Inspect & Conduct Outreach at all Tenant facilities	0 days	1	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
87		17 Construction Site Runoff Control	336 days	1	Wed 9/24/14	Thu 12/31/15		HAR-EE/ETC
88		17.a Use C&C Honolulu Storm Water BMP Manual per Tables 1-3	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
89		17.a.i Avail City & County of Honolulu Storm WaterBMP Manual to public	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
90		17.a.ii Require all Construction Sites to comply w/C&CH SW BMP Manual	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE/ETC
91		17.b Construction Site Inspections	336 days	1	Wed 9/24/14	Thu 12/31/15		HAR-EE
92		17.b.i Develop & maintain electronic database for active Construction Sites	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
93		17.b.ii Assign full-time position for inspection erosion and sediment control	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
94		17.b.iii Reorganize HAR-EE functions & duties; establish full-time position	263 days	365	Thu 1/1/15	Thu 12/31/15		HAR-EE
95		17.b.iv Erosion and sediment control inspection & reporting requirements	62 days	85	Fri 11/7/14	Fri 1/30/15		HAR-EE
96		17.b.v Enforcement actions per Enforcement Response Plan	45 days	62	Fri 12/19/14	Wed 2/18/15		HAR-EE
97		18 Post-Construction Stormwater Management (PCSWM) Program	442 days	1	Wed 9/24/14	Fri 5/27/16		HAR-EE
98		18.a Retrofits of Recently Completed Projects	409 days	1	Thu 11/6/14	Fri 5/27/16		HAR-EE/WSI
99		18.a.i Create inventory of New Development and Redevelopment Projects	131 days	181	Thu 11/6/14	Tue 5/5/15	3	HAR-EE/WSI
100		18.a.ii Requirements for inventory of new & redeveloped projects	131 days	181	Thu 11/6/14	Tue 5/5/15	3	HAR-EE/WSI
101		18.a.iii Evaluate feasibility of retrofitting all projects on inventory	409 days	1	Thu 11/6/14	Fri 5/27/16		HAR-EE/WSI
102		**Detailed Scope of feasibility study**	**195 days**	**270**	**Thu 11/6/14**	**Mon 8/3/15**	**3**	**HAR-EE/WSI**
103		Develop draft scope for feasibility study	162 days	224	Thu 11/6/14	Wed 6/17/15		WSI
104		Review draft scope of feasibility study	22 days	30	Thu 6/18/15	Fri 7/17/15	103	WSI
105		Revise scope of feasibility study	11 days	15	Mon 7/20/15	Mon 8/3/15	104	WSI
106		18.a.iii.1) Submit detailed scope of feasibility study for EPA & HDOH approval	22 days	30	Tue 8/4/15	Wed 9/2/15	105	HAR-EE
107		EPA & HDOH Review Period	22 days	30	Thu 9/3/15	Fri 10/2/15	106	HAR-EE
108		**Feasibility Study**	**192 days**	**1**	**Thu 9/3/15**	**Fri 5/27/16**		**HAR-EE/WSI**
109		Perform feasibility study & prepare draft report	138 days	194	Thu 9/3/15	Mon 3/14/16	106	WSI
110		Review draft feasibility study report	22 days	30	Tue 3/15/16	Wed 4/13/16	109	HAR-EE
111		Revise & finalize feasibility study report	11 days	15	Thu 4/14/16	Thu 4/28/16	110	WSI
112		18.a.iii.2) Complete & submit final feasibility study to EPA & HDOH	21 days	29	Fri 4/29/16	Fri 5/27/16	111	HAR-EE/WSI
113		18.a.iv Start construction of top 3 retrofit projects within 4 yrs after EPA approval	0 days	0	Fri 4/29/16	Fri 4/29/16		HAR-E
114		18.b Project Applicability	94 days	1	Wed 9/24/14	Wed 1/28/15		HAR-EE
115		18.b.i Require all new & redevelopment projects to comply with PCSWM Program	0 days	0	Mon 11/10/14	Mon 11/10/14	3	HAR-EE
116		18.c Develop & adopt BMP standards & technical specifications	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
117		18.d Oversight of Post-Construction Control Measure Installation	64 days	87	Mon 11/3/14	Wed 1/28/15		HAR-EE/ETC
118		18.e Implement electronic inventory of Post-Construction BMP measures	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
119		18.f Long-Term Operations and Maintenance	33 days	0	Wed 9/24/14	Wed 11/5/14		HAR-EE
120		18.f.i Ensure that all new & redeveloped projects have PCSW O&M plans	0 days	0	Wed 11/5/14	Wed 11/5/14	3	HAR-E/CEE
121		18.f.ii Place permanent BMP maintenance requirements in revocable permits & leas	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-PM/EE
122		18.g Inspection and Enforcement Program	73 days	1	Wed 9/24/14	Wed 12/31/14		HAR-EE
123		18.g.i Conduct annual inspection of all Post-Construction BMPs	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-E/CEE
124		18.g.ii Enforce in accordance with Enforcement Response Plan	21 days	29	Wed 12/3/14	Wed 12/31/14		HAR-EE
125		**19 Enforcement Response Plan (ERP)**	**96 days?**	**1**	**Wed 9/24/14**	**Fri 1/30/15**		**AG/HAR-EE**
126		**19.a The Enforcement Response Plan shall include the following:**	**96 days**	**30**	**Wed 9/24/14**	**Fri 1/30/15**		**AG**
127		**19.a.i Incorporate the definitions of Class I and Class II Violations**	**1 day**	**1**	**Wed 9/24/14**	**Wed 9/24/14**		**AG**
128		19.a.i.1) Definition of Class I Violations	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
129		19.a.i.2) Definition of Class II Violations	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-EE
130		19.a.ii(3) Prepare Draft ERP	16 days	22	Wed 9/24/14	Wed 10/15/14	127	AG
131		19.a.iii(4) Finalize & submit ERP to EPA	22 days	30	Thu 11/6/14	Fri 12/5/14	3	AG/HAR-EE
132		Include final ERP in Modified SWMP	36 days	47	Mon 12/15/14	Fri 1/30/15	131	HAR-EE
133		19.b Enter into Memorandum of Agreement with HDOH re: escalated enforcem	24 days?	34	Thu 11/6/14	Tue 12/9/14	3	AG
134		19.b.i Use best efforts to revise Admin Rules to issue civil fines	40 days	56	Thu 11/6/14	Wed 12/31/14		HAR-O/AG
135		20 Storm Sewer System Operation and Maintenance	466 days	1	Wed 9/24/14	Thu 6/30/16		HAR-O/COE/EP
136		20 Submit Storm Sewer System O&M to EPA	22 days	30	Thu 11/6/14	Fri 12/5/14	3	HAR-O/AG
137		20 Include Storm Sewer System O&M Plan in modified SWMP	14 days	36	Wed 1/14/15	Wed 2/18/15		HAR-EE
138		**20.a Storm Sewer System Mapping**	**330 days**	**1**	**Thu 10/2/14**	**Thu 12/31/15**		**COE/HAR-EP/EE**
139		20.a.i Create & submit comprehensive storm sewer Map	130 days	180	Mon 6/1/15	Fri 11/27/15		COE/HAR-EP
140		20.a.ii Submit schedule for 'Condition Survey' to fill data gaps.	24 days	30	Thu 10/2/14	Fri 10/31/14		HAR-EE/WSI
141		20.a.iii.1) Condition Survey (Data Gap) Survey Contract	306 days	1	Mon 11/3/14	Thu 12/31/15		HAR-EE
142		20.a.iii.1a) Obtain Governor's Approval for Supplemental Contract with WSI	21 days	29	Mon 11/3/14	Mon 12/1/14		HAR-EE
143		20.a.iii.1b) Execute Supplemental Contract with WSI	90 days	123	Mon 12/1/14	Thu 4/2/15	142	HAR-EE
144		20.a.iii.1c) Receive & Negotiate WSI Proposal	23 days	32	Fri 4/3/15	Mon 5/4/15	143	HAR-EE/WSI
145		20.a.iii.1d) Issue Letter of Proposal Acceptance & NTP to WSI	21 days	29	Tue 5/5/15	Tue 6/2/15	144	HAR-EE
146		20.a.iii.1e) Perform Condition Survey field & GIS Work	76 days	106	Wed 6/3/15	Wed 9/16/15	145	WSI
147		20.a.iii.1f) Prepare & submit draft Condition Survey report	20 days	28	Thu 9/17/15	Wed 10/14/15	146	WSI
148		20.a.iii.1g) Government review of draft survey report	15 days	21	Thu 10/15/15	Wed 11/4/15	147	HAR-EE/P
149		20.a.iii.1h) Incorporate Gov't comments & submit final survey report	22 days	30	Thu 11/5/15	Fri 12/4/15	148	WSI
150		20.a.iii.1i) Verify GIS updated with new data gap information	18 days	24	Tue 12/8/15	Thu 12/31/15	149	HAR-EP/EE
151		**20.b Develop & maintain an Asset Management System**	**453 days**	**180**	**Mon 10/13/14**	**Thu 6/30/16**		**COE/HAR-EP/EE**
152		20.b.i Obtain Staff Study approval for USACE to select/contract w/AMS ven	36 days	46	Mon 10/13/14	Thu 11/27/14		HAR-EE/DOT
153		20.b.ii Develop Harbors AMS	286 days	396	Mon 12/1/14	Thu 12/31/15	152	COE/CTR/HAR-EP
154		20.b.iii Fully implement Asset Management System	130 days	182	Fri 1/1/16	Thu 6/30/16	150,1	HAR-EP/COE/CTR
155		20.c Storm Sewer System Inspections & Results	195 days	271	Thu 11/6/14	Mon 8/3/15	3	HAR-O/CTR
156		20.d Storm Sewer System Cleaning	227 days	1	Wed 9/24/14	Fri 7/31/15		HAR-O
157		20.d.(A) Initial cleaning of all inlets, pipes (as necessary), drainage features & outfalls	194 days	268	Thu 11/6/14	Fri 7/31/15	3	HAR-O/CTR
158		20.d.(B) Develop a 5-year recurring cleaning cycle for each inlet & drainage feature	88 days	120	Thu 1/1/15	Thu 4/30/15		HAR-O
159		20.d.i Identify "hot spots" for potential discharges of pollutants to the storm sewer system	88 days	120	Thu 1/1/15	Thu 4/30/15		HAR-O
160		20.d.ii Tenant to develop & implement routine cleaning schedule for KBP rail tracks	0 days	0	Wed 9/24/14	Wed 9/24/14		HAR-O

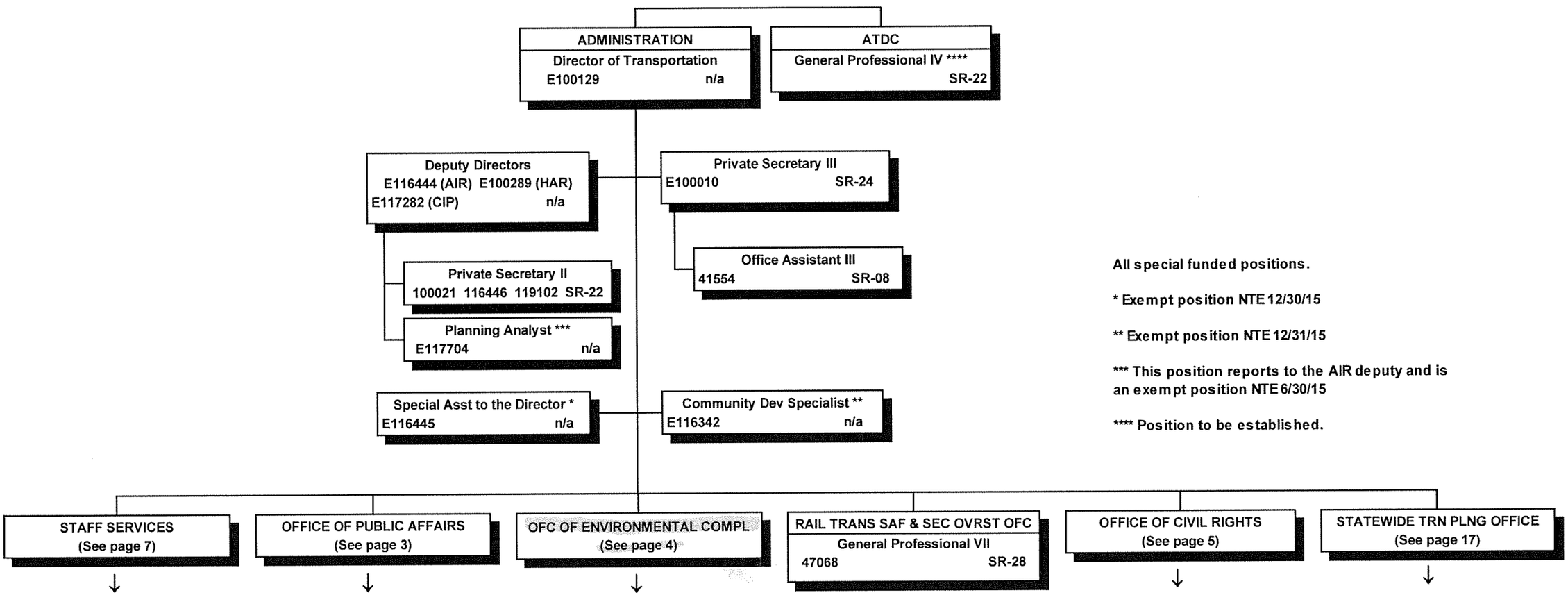
Project: HDOT Consent Decree Gantt Chart
Date: Thu 12/18/14

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

Attachment 3. HDOT Reorganization

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
ADMINISTRATION

POSITION ORGANIZATION CHART



All special funded positions.

* Exempt position NTE 12/30/15

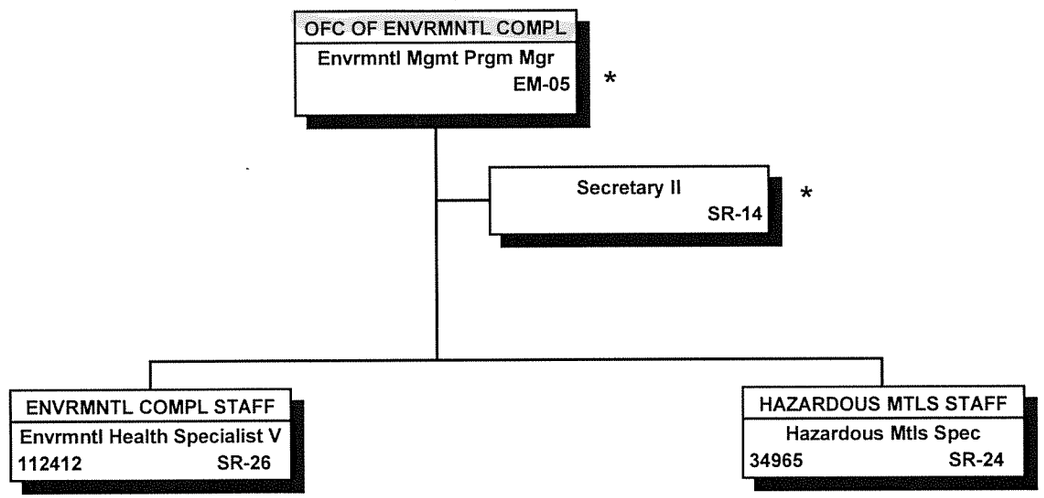
** Exempt position NTE 12/31/15

*** This position reports to the AIR deputy and is an exempt position NTE 6/30/15

**** Position to be established.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
ADMINISTRATION
OFFICE OF ENVIRONMENTAL COMPLIANCE

POSITION ORGANIZATION CHART



All special funded positions

* Positions to be established

speeches for Governor and Director of Transportation and arranges for media coverage.

3. Prepares exhibits and displays, assists and gives technical guidance to modal divisions preparing exhibits or other informational materials.

4. Organizes and cooperates with media and other organizations in special promotions such as National Transportation Week.

5. Prepares periodic newsletters of other materials for public distribution.

6. Prepares the DOT Annual Report and arranges for distribution.

Intra-Departmental Communication

1. Prepares newsletters for periodic distribution to employees.

2. Prepares and arranges for display of bulletin to enhance communications and employee awareness.

3. Cooperates with state service organizations such as blood bank and others to secure participation of employees in programs approved by the Governor.

OFFICE OF ENVIRONMENTAL COMPLIANCE

1. Plans, coordinates and administers the Department of Transportation's statewide environmental compliance program.

2. Oversees the activities of the environmental segments in the Airports, Harbors and Highways divisions, and investigates, monitors and enforces compliance with environmental laws, rules and regulations.

3. Serves as departmental coordinator for matters relating to air and water quality, hazardous waste, transportation of hazardous materials, noise pollution, recycling and other environmental issues.

Environmental Compliance Staff

1. Ensures that all divisions, operational areas and facilities are in compliance with environmental regulations.

2. Monitors hazardous waste management, water quality, air quality, underground storage tank maintenance, asbestos management, remediation of hazardous substances, and safety issues related to hazardous substance remediation and site investigations.

3. Develops the department's plan to achieve compliance with environmental regulations.

4. Determines impact of proposed environmental regulations on DOT's facilities and operations.

5. Assists the divisions with the development and submission of required environmental reports and permits.

6. Develops training guidelines for the divisions to implement the department's compliance plan.

7. Periodically performs on-site environmental regulatory compliance evaluations.

8. Manages the department's recycling program.

Hazardous Materials Staff

1. Develops, administers and interprets hazardous materials transportation regulations in the State of Hawaii.

2. Develops policy, regulations and procedures for the landing and movement of hazardous materials through areas under the control of the Airports, Harbors and Highways divisions.
3. Periodically inspects and monitors all state transportation facilities and highways to ensure hazardous materials transportation regulations are enforced.
4. Develops the department's emergency response plan for hazardous materials transportation incidents.

5. Serves as the department's liaison with federal, state and county agencies for matters concerning hazardous materials transportation emergency response.

RAIL TRANSIT SAFETY AND SECURITY OVERSIGHT OFFICE

Oversees the safety and security of the Honolulu rail transit system which is under the jurisdiction of the Honolulu Authority for Rapid Transportation (HART).

1. Develops and implements a System Safety Program Standard (Program Standard) in accordance with the requirements of Title 49, Code of Federal Regulations, Part 659.

   a. The Program Standard defines the relationship between the Oversight Office and HART. It also describes the policies, objectives, responsibilities and procedures used to provide the safety and security oversight of HART's rail transit system.

   b. The Program Standard shall include the following elements:

      (1) Program management;

      (2) Program standard development;

      (3) Oversight of the HART's internal safety and security reviews;

      (4) Oversight agency safety and security review;

      (5) Accident notification;

      (6) Investigations;

      (7) Corrective action plans;

      (8) System safety program plan; and

      (9) System security plan.

Attachment 4. New Educational Materials

a. Storm Drain Protection BMP Flier
b. Suggested Vendor Handout
c. Construction Brochure
d. Post-Construction Brochure

Storm Water

BEST MANAGEMENT PRACTICES

Storm Drain Inlet Protection

Storm water runoff occurs naturally. As the runoff flows over land or impervious surfaces (such as paved streets, parking lots, and building rooftops), it can collect debris, chemicals, sediment and other pollutants that could adversely affect water quality if discharged untreated. Storm drain inlet protection measures prevent potential pollutants from entering inlets and eventually our coastal receiving waters.

Storm drain inlet protection can consist of an impounding area around or upstream of a storm drain inlet and/or a sediment filter. The impounding area temporarily ponds runoff to allow sediment to settle, before entering the storm drain. Sediment and debris can also be removed by filtering.

ONLY RAIN AND PERMITTED DISCHARGES ARE ALLOWED TO ENTER HARBORS STORM WATER CONVEYANCE SYSTEMS.

Harbors Tenants shall implement following BMPs for drain inlets located exclusively within the leased area.

- Stencil catch basins and inlets to warn against dumping of pollutants into the storm drainage system.
- Install fabric filter at each on-site storm drain inlet. The fabric should overlap the sides of the inlet.
- Clean on-site catch basins and storm drain inlets in high pollutant load areas as frequently as needed and before the wet season to remove sediment and debris.
- Notify Harbors Division if repairs are needed for deteriorated storm drains and their piping.
- For storm drain inlet protection as part of construction project, please refer to Harbors Construction Site Runoff Control Program.

Inspection and Maintenance:

- If the fabric becomes clogged, torn, or degraded, it should be replaced.
- Properly dispose of wastes collected from storm drain inlet cleaning activities.

The State Department of Transportation, Harbors Division has developed the Storm Water Management Plan (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) Permit.

The SWMP is administered by the Environmental Section under the Engineering Branch.

Phone: 808-587-1962

Website: http://hidot.hawaii.gov/harbors/library/storm-water-management/

WHEN IT RAINS IT DRAINS

Suggested Services and Product Providers

Company Name	Phone No.	Service or Product
Hawaii Responder	808-531-8220	Spill Response
Marine Logistics	808-522-1008	Spill Response
MSRC	808-847-8144	Spill Response
Pacific Commercial Services	808-545-4599	Spill Response; BMP Products; Recycler – Used Oil, e-waste
Dash Pacific Corp	808-259-8400	BMP Products
Enviro-Tech Biosolutions Hawaii Inc.	808-259-9888	BMP Products
Geotech Solutions Inc.	808-677-1580	BMP Products
GP Roadway Solutions	808-833-2502	BMP Products
Grainger	808-423-0028	BMP Products
Rent A Fence	808-682-0449	BMP Products
Safety Systems Hawaii	808-847-4017	BMP Products
AECOM	808-523-8874	Consultants
AECOS Inc.	808-234-7770	Consultants
Aina Environmental Group Inc.	808-842-4156	Consultants
Aircare Environmental	808-593-9600	Consultants
AMEC	808-545-2462	Consultants
Bearing Sea Ecotech	808-682-1422	Consultants
Belt Collins	808-521-5261	Consultants
Bills Engineering Inc.	808-792-2022	Consultants
Biogenesis Pacific Inc.	808-263-7777	Consultants
Brown and Caldwell Consultants	808-523-8499	Consultants
Bureau Veritas North America Inc.	808-531-6708	Consultants
Central Planet Repair LLC	808-487-3438	Consultants
CFM Environmental LLC	808-779-2948	Consultants
Chee Wil - Planning and Environmental	808-596-4688	Consultants
Chemstruction Systems Hawaii LLC	808-949-2146	Consultants
Clancy Environmental Consultants Inc.	808-394-6900	Consultants
Dawson Group Inc.	808-536-5500	Consultants
EA Engineering Science and Technology	808-589-1455	Consultants
EAC Pacific	808-626-7706	Consultants
ECO Teck Consulting	808-488-8204	Consultants
Element Environmental LLC	808-637-1200	Consultants
EMET Environmeteo Service Inc.	808-671-8383	Consultants
Environet	808-833-2225	Consultants
Environmental Biotech of Hawaii	808-589-3241	Consultants
Environmental Chemical Corp	808-486-3707	Consultants

Vendor Categories

►*Spill Response* – Provides assistance in responding to releases.

►*BMP Products* – Carries BMP materials for controlling potential pollutants on-site.

►*Consultants* – Provides support to comply with a variety of environmental.

►*Recycler or Hauler* – Disposes of various materials.

►*Laboratories* – Analytical analysis of samples.

►*Washing Services* – Pressure washing companies (*Ensure approval is obtained from Harbors prior to activities)

Storm water Hotline:
Phone: 808-587-2076
Website:
http://hidot.hawaii.gov/harbors/library/storm-water-management/

Company Name	Phone No.	Service or Product
Environmental Science International	808-261-0740	Consultants
Environmental Systems Planning & Design Consultants	808-533-4158	Consultants
Environmental Transport Group LLC	808-456-7663	Consultants and Recycler – e-waste
Enviroquest Inc.	808-486-5881	Consultants
EnviroServices and Training Center, LLC	808-839-7222	Consultants and Hauler - Hazwaste, used oil, solvents, universal waste, e-waste
ERM	808-521-4404	Consultants
Fujioka Masa & Associates	808-484-5366	Consultants
Globeteck Group Inc.	808-833-5787	Consultants
Group 70 International Inc.	808-523-5866	Consultants
Hawaii Geophysical Services LLC	808-845-3900	Consultants
Haztech Environmental Services	808-671-1985	Consultants
Helber Hastert & Fee Planners	808-545-2055	Consultants
HIES Inc.	808-263-4787	Consultants
JW Morrow	808-942-9096	Consultants
Kimura International Inc.	808-944-8848	Consultants
LFR-Levine Fricke Inc.	808-522-0321	Consultants
Marc M Siah & Associates	808-538-7180	Consultants
Mink & Yuen	808-943-1822	Consultants
Muranaka Environmental Consultants Inc.	808-836-8822	Consultants
Myounghee Noh & Associates	808-484-9214	Consultants
Pacific Consulting Services Inc.	808-546-5557	Consultants
Pacific Risk Management	808-521-8002	Consultants
Parsons Brinckerhoff Quade & Douglass Inc.	808-531-7094	Consultants
PEMCO Ltd	808-949-0414	Consultants
Plan Pacific	808-521-9418	Consultants
Planning Solutions	808-550-4483	Consultants
Professional Training Hawaii	808-536-9656	Consultants
PSI	808-947-1127	Consultants
RM Towill Corp	808-842-1133	Consultants
Weston Solutions	808-275-2900	Consultants
Ace Iron Recycling	808-847-3322	Recycler – Metals
AERC Recycling	1-408-390-1582	Recycler – Universal Waste Lamps
Aiea Recycling	808-841-3500	Recycler
Aiea Shell Inc.	808-488-0905	Recycler – HI5
Albert's Towing & Automotive	808-682-4060	Recycler – Vehicles
Battery Bill	808-833-3797	Recycler - Batteries
Cameron Chemical Corp	808-695-2999	Recycler – E-waste
Cameron Chemical Corp.	808-695-2999	Hauler – Hazwaste, used oil, solvents, universal waste, e-waste
Consolidated Electrical Distributers (CED)	80-847-0641	Recycler – Universal Waste
Earth Protection Services	1-800-414-0443	Recycler – Universal Waste Lamps
EMCC	808-590-0494	Recycler – Universal Waste Lamps
Free Towing Hawaii	808-682-2752	Recycler – Vehicles
Green Recycling LLC	808-682-8828	Recycler – Vehicles
Hawaii Marine Cleaning	808-455-8226	Hauler – Hazwaste, sumps, bilges, tanks

Company Name	Phone No.	Service or Product
Hawaiian Earth Products, Ltd	808-261-5877	Recycler – Wood and Green Waste
Honolulu Recovery Systems	808-841-3179	Recycler - Commercial
Island Commodities	808-682-5844	Recycler
Island Recycling, Inc.	808-682-9200	Recycler – HI5 and e-waste
Kokua Recycle	808-735-1204	Recycler
Leeward Auto Recycling, Inc.	808-682-5515	Recycler – Vehicles
Lenox Metals LLC	808-682-5539	Recycler - Metals
Lighting Resources	1-855-327-8455	Recycler – Universal Waste Lamps
Mercury Waste Solutions	1-678-796-9102	Recycler – Universal Waste Lamps
Oasis Environmental Group	808-529-1300	Hauler and Recycler – Hazwaste, solvents, universal waste, e-waste
Okuda Metal, Inc.	808-845-6856	Recycler - Metals
Pacific Corporate Solutions	808-488-8870	Recycler – E-waste
Pacific Environmental Corp (PENCO)	808-545-5195	Hauler – Hazwaste, solvents, universal waste, e-waste
Rechargeable Battery Corp	1-949-215-4620	Recycler – Universal Waste Batteries
Return Inc.	808-682-5532	Recycler
Reynolds Recycling	808-487-2802	Recycler – Metals, HI5
RRR Recycling Services Hawaii LLC	808-682-5600	Recycler – HI5
Schnitzer Steel Hawaii Corp	808-682-9103	Recycler – Metals
SD Systems, inc.	808-836-7950	Recycler – E-waste
T&N Computer Recycling Systems	808-371-0281	Recycler – E-waste
Veolia	1-800-556-5267	Recycler – Universal Waste Lamps
Waiphau Recycling	808-677-6969	Recycler – Metals
808powerwashing	808-620-6954	Washing Services
Aloha Power Clean	808-429-0470	Washing Services
Alpha Pressure Washing	808-779-0623	Washing Services
American Mildew & Pressure	808-261-7119	Washing Services
Cash Enterprise	808-834-3442	Washing Services
Classy Clean Cans	808-783-7874	Washing Services
Commercial Building Maintenance Inc.	808-845-1955	Washing Services
Cornerstone Pressure Washing	808-486-0100	Washing Services
Coverall Hawaii	808-944-3100	Washing Services
Engine Power Hawaii	808-381-4666	Washing Services
Environmental Power Washing	808-833-2298	Washing Services
Envirowash Hawaii	808-313-9000	Washing Services
Hawaii Specialty Maintenance, LLC	808-599-4419	Washing Services
Hydra-Air Pacific	808-834-7656	Washing Services
Interisland Diversified Inc.	808-247-6835	Washing Services
Island Jet Wash	808-627-0506	Washing Services
Island Reflections	808-783-6838	Washing Services
JR Environmental	808-728-3661	Washing Services
Kama'aina Coatings	808-630-9583	Washing Services
Metropolitan Paint – Environmental	808-682-5099	Washing Services
Mobile Technologies	808-941-3483	Washing Services
North Shore Power Wash	808-717-7157	Washing Services
Nova Distributers	808-455-6411	Washing Services

Company Name	Phone No.	Service or Product
Oahu Power Wash Services	808-593-9274	Washing Services
PWC The People Who Clean	808-521-6307	Washing Services
Power Wash Hawaii	808-259-8700	Washing Services
Precision Cleaning Inc.	808-377-7776	Washing Services
Service Master Co.	808-664-9911	Washing Services
Sparklewash of Honolulu	808-678-1983	Washing Services
Wash on Wheels	808-845-2025	Washing Services
Advanced Analytical Lab	808-836-2252	Laboratory (no stormwater samples)
Aecos Inc.	808-234-7770	Consultants and Laboratory
Columbia Analytical Services, Inc.	808-682-1564	Laboratory
ESN Pacific Inc.	808-847-0067	Laboratory
FQ Labs	808-839-9444	Laboratory
Geolabs Inc.	808-847-1749	Laboratory
Hawaii Food & Water Testing LLC	808-836-5558	Laboratory
Oceanit Laboratories Inc.	808-531-3177	Laboratory, Consultants
Test America Laboratories Inc.	808-486-5227	Laboratory
White Environmental Consultants, Inc.	808-536-8819	Laboratory

*List compiled from yellow pages and Department of Health, HEER Office.

Examples of Good BMPs

BMPs should be installed and maintained in accordance with the ***City and County of Honolulu Storm Water BMP Manual for Construction***. Here are examples of good BMPs:

Stabilized construction entrance.

Drain inlet protected.

Properly installed silt fence

Properly contained stockpile.

Examples of Illicit Discharges

Illicit Discharge: Non-stormwater discharge that poses a risk to the environment.

Sediment leached off-site.

Improper disposal of paint.

Deficiencies are subject to enforcement.

Contact the **State of Hawaii Department of Health, Clean Water Branch** to see if your project requires an **NPDES Permit**.

Environmental Compliance

Required by your contract or by a tenant revocable permit / lease agreement.

ALL construction projects are **REQUIRED** to comply with **ALL** Local, State and Federal **ENVIRONMENTAL LAWS**. Enforcement for non-compliance may include:

- Oral or Verbal Warning
- Written Warning
- Notice of Violation
- Stop Work Order
- Summons/Citation

Training Reauirements

Initial and annual refresher construction training are REQUIRED for ALL participants involved in construction: HDOT Harbors Division engineers, inspectors, and design & construction consultants.

Online Training Available Soon!

Inspectors must receive additional training and conduct at least three on-the-job inspections.

Mailing Address:
Hawaii Dept of Transportation, Harbors Division
Hale Awa Ku Moku Building
79 South Nimitz Highway
Honolulu, Hawaii 96813-4898

Report Illicit Discharges

- Harbors Environmental Section: **(808) 587-1962**
- Harbors Traffic Control (24/7): **(808) 587-2076**
- U.S. Coast Guard: **(808) 842-2600**
- **Hawaii Department of Health, Clean Water Branch: (808) 586-4309**

HARBORS DIVISION
PROTECT OUR HARBOR WATERS
MALAMA I KE KAI
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

Construction activities can contribute pollutants and impact the stormwater runoff, eventually discharging to the harbors. All construction projects conducted on Harbors property at Honolulu and Kalaeloa Barbers Point Harbors are subject to the requirements set forth in **Harbors Construction Site Runoff Construction Program**.

Construction is defined as any activity that disturbs land (e.g., clearing, grading, excavating) and construction related activities (e.g., staging areas, stockpiles). The following construction projects are exempt from the Harbors Construction Program:

- Minor land disturbance on a single lot (e.g., landscaping).
- Post, pole, sign, and fencing installation.
- Utility repair work.
- Parking lot, driveway repair.
- Repair and maintenance activities.

HDOT Harbors Construction Site Runoff Control Program Manual is online at
http://hidot.hawaii.gov/harbors/files/2013/01/2014-Construction-Site-Runoff-Control-Program_Final.pdf

PROTECT OUR HARBORS WATERS

MĀLAMA I KE KAI

ALL non-exempt construction projects must be reviewed by HDOT Harbors Division to ensure the following are completed and/or submitted:

Pre-Design meeting (HDOT Projects Only)

Harbors Division Engineering Branch Environmental Section will review the project and proposed Best Management Practices (BMPs) to ensure they are adequate for proposed activities.

Discharge/Connection Permit (Tenant Projects Only)

Tenants must complete the Discharge/Connection Permit application and submit to Environmental Section for review and evaluation, when applicable.

NPDES Permits

Submit permit application to the State of Hawaii Department of Health per Hawaii Administrative Rules 11-55. Proof of application and permit must be provided to HDOT Harbors Division Engineering Branch Environmental Section.

Construction General Permit

Required for sites disturbing land of one acre or more.

Dewatering General Permit

Required for projects dewatering to the storm drain and/or receiving water.

To apply for NPDES permits, please visit https://eha-cloud.doh.hawaii.gov/epermit/

PLAN SUBMITTAL AND REVIEW

The following forms must be submitted for plan review. Blank copies of all forms are available on the HDOT Harbors Division Storm Water Management website in the *Construction Site Runoff Control Program Manual* and *Post-Construction Stormwater Management Manual* (http://hidot.hawaii.gov/harbors/library/storm-water-management/).

For Sites Less Than One Acre:

- Complete Notification Form.
- Attach site plan and narrative of proposed work and applicable BMPs.
- Discharge/Connection permit application (tenant projects only).

For Sites of One Acre and More:

- Complete Construction Design Review Checklist.
- Complete Permanent Post-Construction BMP Plan Checklist.
- Construction Drawings/Plans.
- SWPPP
- Post-Construction Stormwater Mitigation Plan
- Copies of NPDES Permit Applications and Any Other Applicable Applications.

HDOT Harbors Division Engineering Branch Environmental Section will review the submittal to ensure the impact of the construction project has been limited to the maximum extent practicable.

Harbors will issue approval to allow the project to proceed once all plan review comments have been addressed. Approval will be contingent upon the installation of BMPs and an initial inspection.

HARBORS INSPECTION

Construction site Best Management Practices must be installed per construction plans or the SWPPP (when applicable). Inspections will be conducted by Environmental Section and/or designated & qualified inspector. Results will be recorded on *Construction Site Best Management Practices Inspection Checklist* and provided to the contractor for correction (if any).

Initial Inspection: To ensure that BMPs have been installed and are adequate. **No other construction activities should commence until this inspection is conducted and deficiencies are addressed**.

Recurring Inspection: Will be conducted throughout the duration of the project to ensure BMPs are maintained. Frequencies are:

- October to March: Every two weeks
- April to September: Every two months

Final Inspection: Will be conducted after construction activities have been completed to ensure the following:

- Disturbed soil is stabilized.
- Temporary BMPs are removed.
- Permanent BMPs are installed, where applicable.

CONSTRUCTION SELF-INSPECTION

In addition, construction contractor must conduct self-inspections per requirements set forth in HAR 11-55.

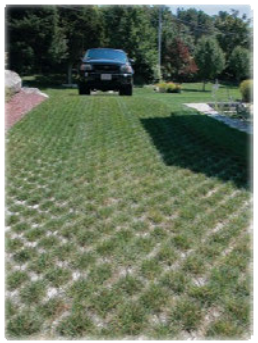
Other References:

◊ CCH Rules Relating to Soil Erosion Standards and Guidelines (dated April 1999).

◊ CCH Storm Water Best Management Practice Manual for Construction (dated November 2011).

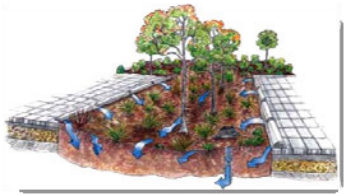
Common Post-Construction BMPs

BMPs should be installed and maintained in accordance with ***CCH Storm Water BMP Guide***. Typical post-construction BMPs include the following:



Minimize Impervious Surfaces

Install Permeable Pavers



Direct Runoff to Landscaped Areas

Stencil Storm Drain Inlets

Store Hazardous Materials Indoors or Under Cover

Cover Fueling Areas

Environmental Compliance

Required by your contract or by a tenant revocable permit / lease agreement.

ALL projects are REQUIRED to comply with ALL Local, State and Federal ENVIRONMENTAL LAWS. Enforcement for non-compliance may include:

- Oral or Verbal Warning
- Written Warning
- Notice of Violation
- Stop Work Order
- Summons/Citation

Training Requirements

Training is a major component of any successful stormwater program.

HDOT Harbors Division provides annual training courses for Designers, Plan Reviewers, Inspectors, Construction Managers, Contractors, and operators involved in the implementation of the Harbors Post-Construction Stormwater Management Program.

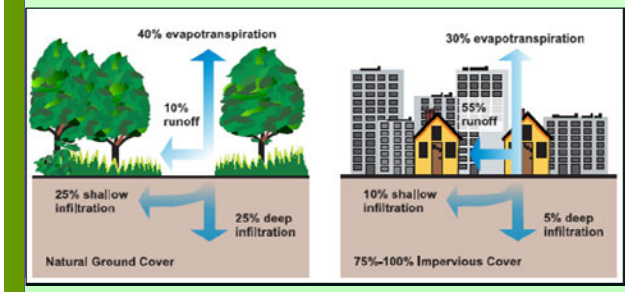
Online Training Available Soon!

Mailing Address:
Hawaii Dept of Transportation, Harbors Division
Hale Awa Ku Moku Building
79 South Nimitz Highway
Honolulu, Hawaii 96813-4898

Report Illicit Discharges

- Harbors Environmental Section: (808) 587-1962
- Harbors Traffic Control (24/7): (808) 587-2076
- U.S. Coast Guard: (808) 842-2600
- Hawaii Department of Health, Clean Water Branch: (808) 586-4309

At Honolulu and Kalaeloa Barbers Point Harbors, all new and redevelopment projects (resulting in a land disturbance of one acre or more) under HDOT Harbors Division jurisdiction, are subject to the Harbors Post-Construction Stormwater Management Program.



This program complements the ***Harbors Construction Site Runoff Control Program***. It is primarily for:

- Harbors Staff tasked with plan review and approval for capital projects and tenant improvement projects.
- Harbors Staff tasked with construction oversight, inspection, and maintenance of post-construction Best Management Practices [BMPs].
- Harbors tenants who wish to perform new construction, reconstruction, and modification of their premises.
- Development community including engineers and architects tasked with creating/submitting construction plans for approval.

HDOT Harbors Post-Construction Stormwater Management Program Manual is online at http://hidot.hawaii.gov/harbors/files/2013/01/2014-Post-Construction-SW-Manual_FINAL.pdf

PROTECT OUR HARBORS WATERS

MĀLAMA I KE KAI

Urban runoff from a developed site has the potential to contribute pollutants, including trash, oil and grease, suspended solids, metals, gasoline, pesticides, and pathogens to the stormwater conveyance system and receiving waters.

New Development is defined as new construction or installation of a building or structure or the creation of impervious surfaces that disturbs greater than or equal to one acre, or less than one acre if it is part of a larger common plan of development or sale that disturbs one acre or more.

Redevelopment is development that would create or add an impervious surface area on an already developed site. Redevelopment includes, but is not limited to, any construction project that requires demolition or complete removal of existing structures or impervious surfaces at a site and replacement with new impervious surfaces.

Program Exemptions

HDOT Harbors Division may exempt certain types of projects from this program that pose a minimum risk of stormwater pollution including, but not limited to:

- Maintenance activities such as top-layer grinding, repaving (where all pavement is not removed) and reconfiguring surface parking lots.
- Reroofing.
- Interior remodeling and improvement.
- Routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility.
- Trenching and resurfacing associated with utility work.
- Replacement of damaged pavement.
- Emergency construction activities required to immediately protect public health and safety.

General Project Requirements

In Design Phase:

1. Incorporate post-construction BMP into project design (Section 2.0* and ***City and County of Honolulu [CCH] Storm Water BMP Guide***).
2. Submit *Permanent Post-Construction BMP Plan Checklist* (Appendix B*).
3. Apply for necessary permits (Attachments 1 and 2 of ***Construction Site Runoff Control Program*** manual).
4. Submit plans including Post-Construction Stormwater Mitigation Plan [PSMP] for review (Section 3.0*)
5. Submit O&M Plan, if applicable, for review (Section 5.1*)
6. Wait for concurrence and Notice to Proceed.

In Construction Phase:

1. Install Post-Construction BMP according to approved PSMP.
2. Monitor/Inspect installation and inventory (Attachment 4 of ***Construction Site Runoff Control Program***).
3. Enforcement if necessary.
4. Submit O&M Plan for review (Section 5.1*).

In Post-Construction Phase:

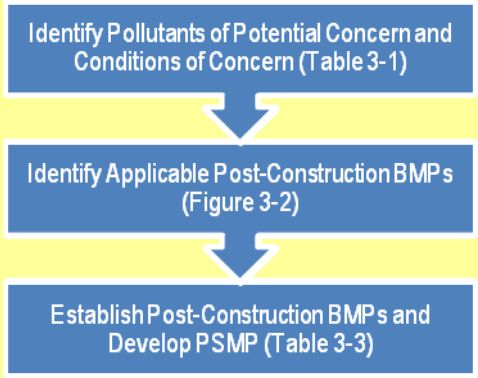
1. Conduct long-term O&M of post-construction BMPs, if applicable (Section 5.0*).
2. Inspect post-construction BMP regularly (Section 5.3*)
3. For Tenant projects, tenant must submit annual O&M and inspection report to Harbors when applicable (Section 5.2*).
4. Enforcement if necessary (Section 6.0*).

References:

- ◊ CCH Storm Water BMP Guide with revision dated July 2012.
- ◊ CCH Rules Relating to Storm Drainage Standards dated January 2000.
- ◊ *HDOT Harbors Division Post-Construction Stormwater Management Program Manual.

BMP Requirements & Selection

To comply with Harbors small Municipal Separate Storm Sewer System permits and to minimize water quality impacts from new development and redevelopment, all Regulated Projects shall consider and apply post-construction BMPs, as appropriate.



Post-Construction BMPs

Low Impact Development [LID] Site Design Strategies:

- Reducing the hydrologic impacts of development and incorporating techniques that maintain or restore the site's hydrologic and hydraulic functions.

Source Control:

- Preventing pollutants from coming in contact with runoff and preventing polluted runoff from discharging into stormwater conveyance system and receiving waters.

Treatment Control:

- LID Retention - Retaining runoff on-site.
- LID Bioinfiltration - Removing pollutants from runoff by filtering through vegetation and soils.
- Other Treatment - Removing pollutants from runoff by mechanical methods.

Attachment 5. Newspaper Advertisement

MIGHTIER
than their credit card.

FEATURED OFFER SUN, AUG 10 – SAT, AUG 23

Priority Destinations® World Elite Credit Card

Travel on any airline, any time. PLUS:

- Earn 5x miles on travel up to $6,000/year
- Annual fee of $50 waived for the first year
- *Special offer: Earn 2x miles at restaurants until October 31, 2014.*

Earn 25,000 Bonus Priority Miles®

WHEN YOU SPEND $1,500 IN THE FIRST 3 MONTHS

FHB.COM/MIGHTYMONEY

844-4444 (OAHU) | 1-888-844-4444 (NEIGHBOR ISLANDS)

First Hawaiian Bank

fhb.com
Member FDIC

*Subject to credit approval. Apply for the Priority Destinations® World Elite credit card between 7/1/14-8/30/14 and, if you're approved, receive 25,000 bonus Priority Miles® with $1,500 in purchases in the first 3 months after opening your account. You can earn 5 Priority Miles per $1 spent on net qualifying travel purchases up to $6,000 per calendar year, and 2 Priority Miles per $1 spent on travel purchases thereafter; 2 Priority Miles per $1 spent on qualifying everyday purchases (gas, grocery, cable TV, phone and other monthly utilities); and 1 Priority Mile for every $1 spent on all other net qualifying purchases. Plus, you'll earn 2 Priority Miles per $1 spent on qualifying purchases made with your Priority Destinations credit card at restaurants until 10/31/14. The Annual Percentage Rate (APR) for Purchases is a variable rate of 16.24% APR as of 7/1/14 for the Priority Destinations World Elite credit card, and 14.24% for Priority Banking customers. The fixed APR for balance transfers is 4.99% for eight billing cycles beginning with the billing cycle on which the balance transfer appears. After that, the variable rate will apply. The fixed Cash Advance APR is 18.00%. The fixed Penalty APR is 18.00% and may be applied if you make a late payment. The Minimum Interest Charge will be no less than $1.00. The ATM Cash Advance Fee is 3% of the transaction amount ($3 min) and the Over-the-Counter Cash Advance, Balance Transfer and Convenience Check Fees are 3% of the transaction amount ($5 min). There is no Foreign Transaction Fee. $0 Intro Annual Fee for the first year after account opening; thereafter, the Annual Fee is $50. Travel and booking subject to availability through Orbitz®. Additional fees and restrictions apply. See the Priority Destinations Program Agreement for more information. First Hawaiian Bank reserves the right to cancel or change the Program at any time without prior notice.

1-5"x7" photo

Boys $120 (reg. $150)
Up to 5 years old or 4 feet tall; 5 years old, please ask for the rate, including Kimono Rental & Dressing, 1-5"x7" photo

www.masakohawaii.com • 716 Cooke Street • 593-7930

HAWAII DOT HARBORS DIVISION
MĀLAMA I KE KAI
PROTECT OUR HARBOR WATERS

Storm water pollution is increasingly becoming a threat to our natural coastal ecosystems. Storm water can convey potential pollutants directly into our ocean waters. DOT Harbors is working to protect our state waters through a variety of efforts, including:

- **Inspections** to ensure construction and tenant activities are done in a manner that is safe for the environment.
- **Investigations** of storm drain systems for illicit discharges (a non-storm water discharge that poses a risk to the environment).
- Updating **maps** to locate key features of the Honolulu Harbor and Kalaeloa Barber's Point Harbor drainage systems with Army Corp of Engineers (ACOE).

UPCOMING EVENTS

DOT Harbors Tenant Training
Aug. 28th & Sept. 11, 2014
Mandatory training for Oahu tenants on storm water BMPs.

Int'l Coastal Cleanup Day
DATE - September 20, 2014
In Hawaii, we call it "Get the Drift and Bag It!" and Wikoliana Educational Excursions will be kicking off the Hawaii "Adopt-A-Harbor" program. If you want to volunteer, please contact Captain Ian "Jeff" Lansdown at 230-0940.

Call if you see a suspected illicit discharge:
808-587-2076 (24/7)

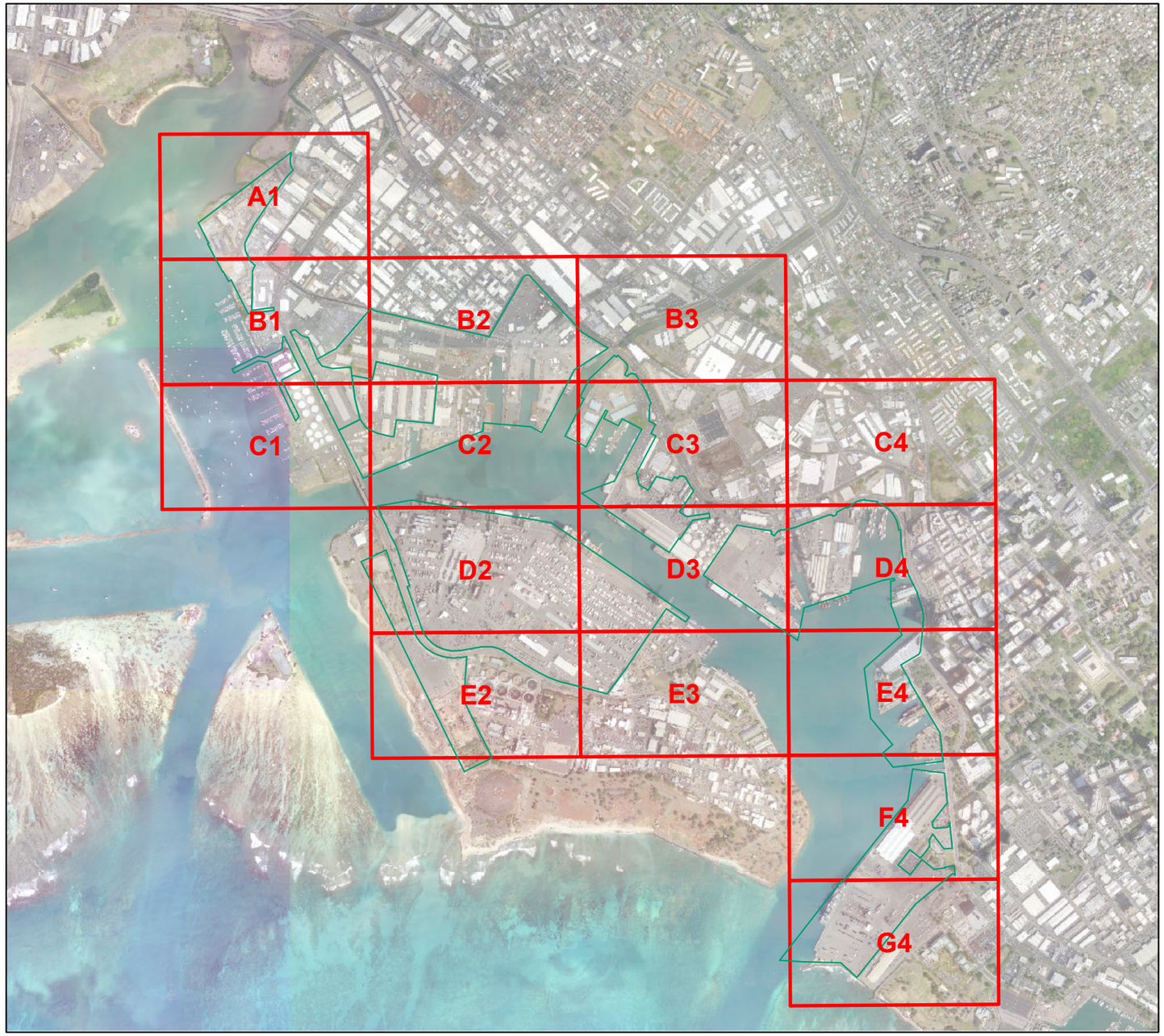
http://hidot.hawaii.gov/harbors/library/storm-water-management/

officials to deny him entry

A heavily tattooed German man whose face is embellished with horn implants and more than 100 piercings said Sunday he was refused entry to Dubai without reason, forcing him to skip a planned gig at a nightclub.

Attachment 6. MS4 Maps

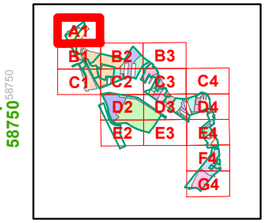
a. Storm Drain Map Books (HNL & KBPH)
b. ORI Storm Drain Research for Mapping



This grid represents the sheets used in this map book.

Map Book of Storm Drain Features
Honolulu

November 2014



STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

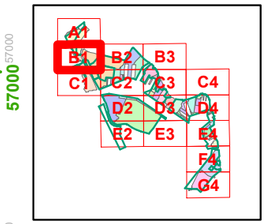
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **A1**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

11 x 17 Mapbook
1" = 200'

DOT Harbors
- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu
- CCH Node
- CCH Line
- CCH Polygon

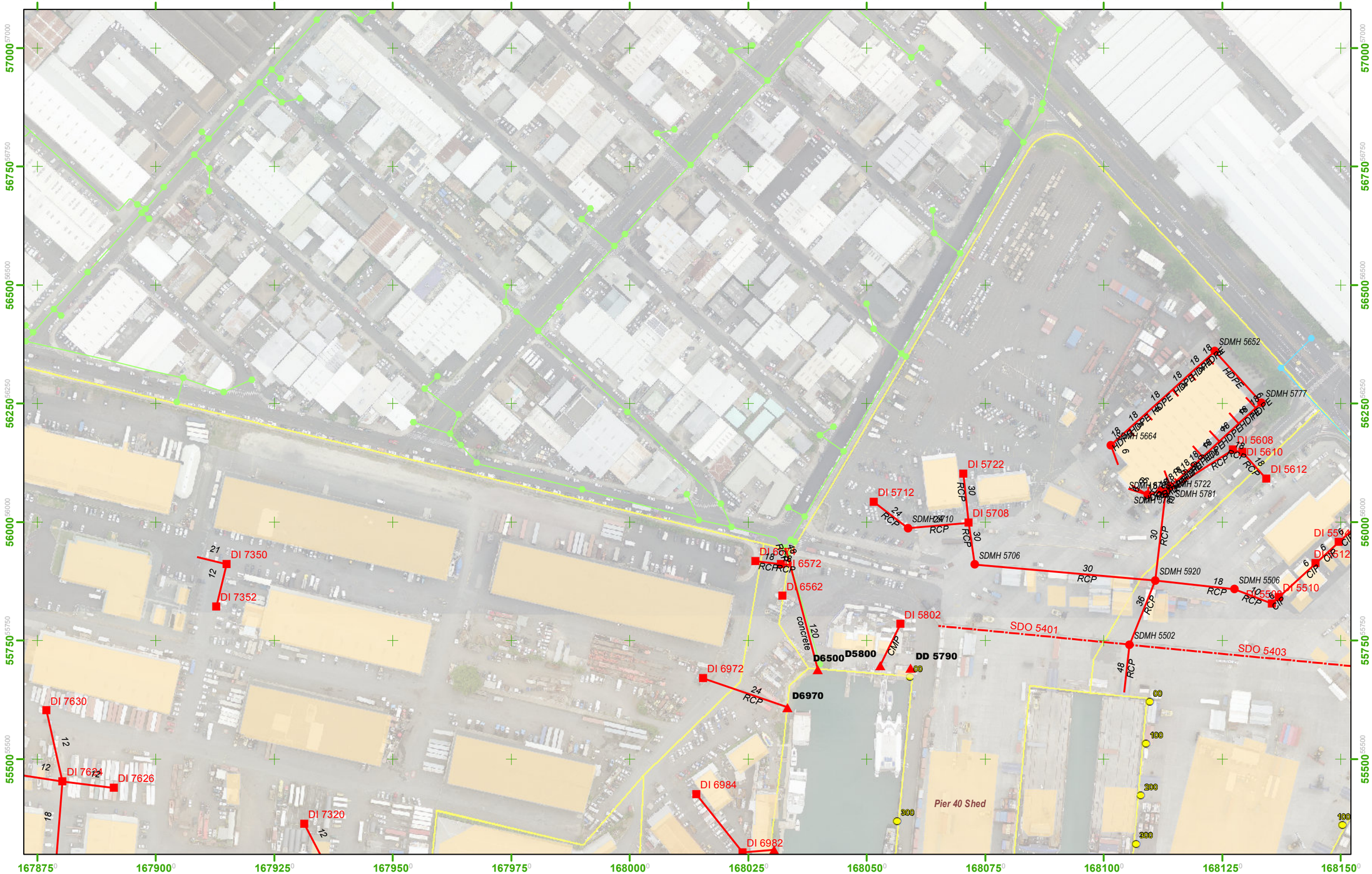
DOT Highways
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

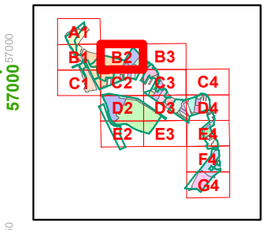
0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **B1**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd





STORM DRAINAGE HONOLULU

11 x 17 Mapbook 1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

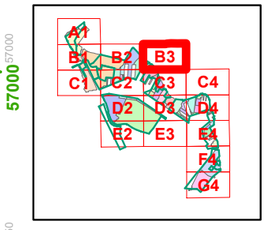
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **B2**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

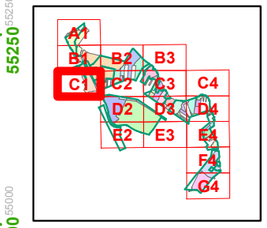
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **B3**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

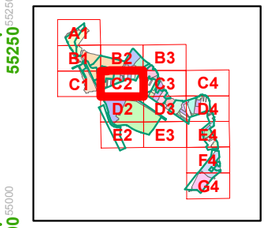
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **C1**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

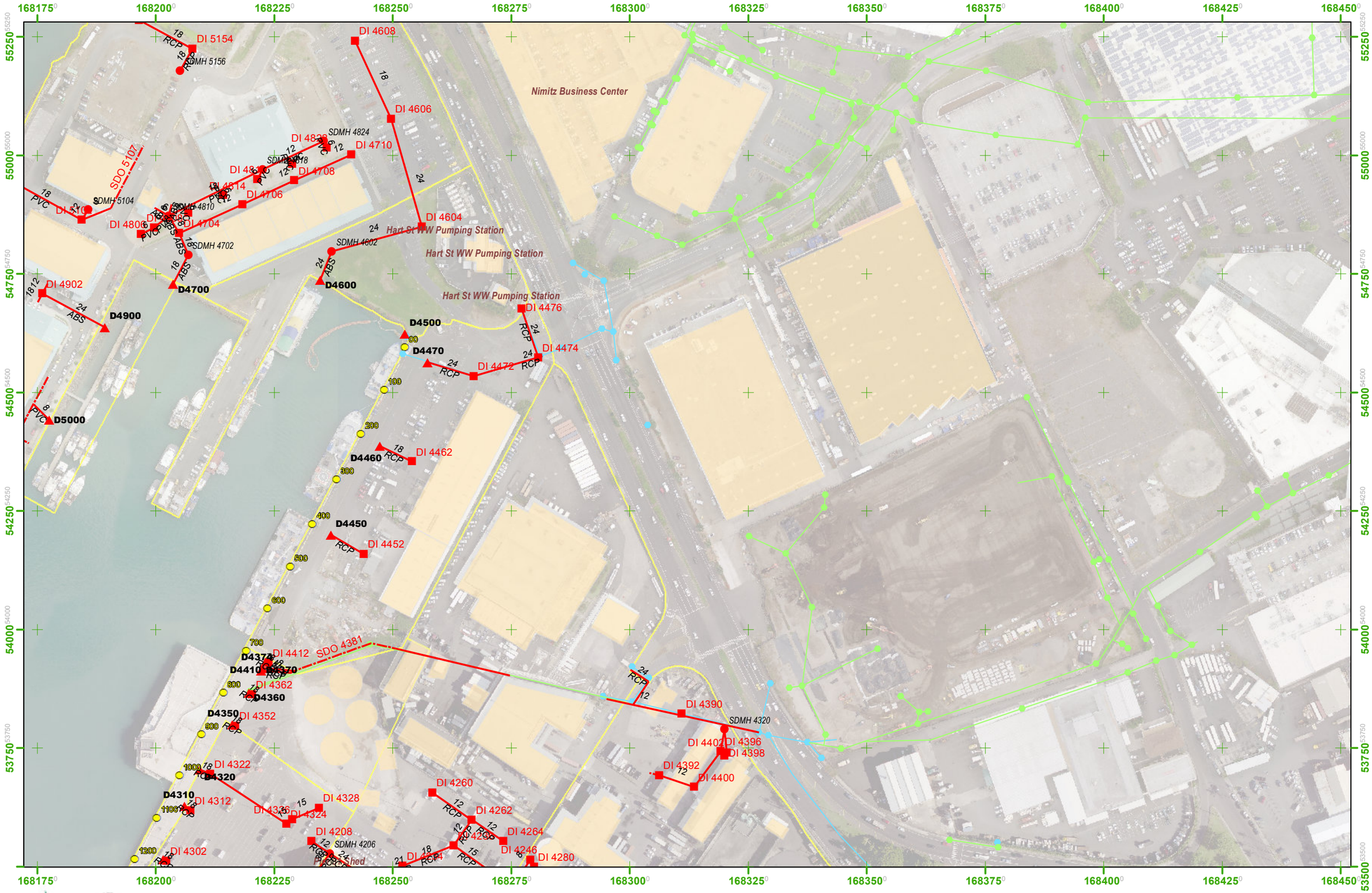
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

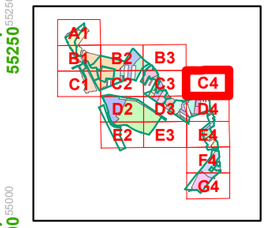
0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **C2**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd


Nimitz Business Center
Hart St WW Pumping Station
Hart St WW Pumping Station
Hart St WW Pumping Station
DI 5154
SDMH 5156
DI 4608
DI 4606
DI 4710
DI 4708
DI 4706
DI 4704
DI 4604
SDMH 4824
SDMH 4702
SDMH 4602
SDO 5107
SDMH 5104
DI 4806
DI 4902
D4900
D4700
D4600
D4500
D4470
DI 4476
DI 4474
DI 4472
D5000
D4460
DI 4462
D4450
DI 4452
SDO 4381
DI 4412
D4370
D4360
DI 4362
D4350
DI 4352
D4320
DI 4322
D4310
DI 4312
DI 4302
DI 4328
DI 4324
DI 4208
SDMH 4206
Boat Shed
DI 4260
DI 4262
DI 4264
DI 4246
DI 4280
DI 4390
SDMH 4320
DI 4402
DI 4396
DI 4398
DI 4392
DI 4400
168175
168200
168225
168250
168275
168300
168325
168350
168375
168400
168425
168450
55250
55000
54750
54500
54250
54000
53750
53500
STORM DRAINAGE
HONOLULU
11 x 17 Mapbook
1" = 200'
DOT Harbors
inlet (Arial, 8)
open_line (Arial 8)
junction (Arial Narrow, 7, italics)
discharge (Arial Black, 7)
line (Arial, 7, italics)
buildings
footmarker
pier_footprint
City and County of Honolulu
CCH Node
CCH Line
CCH Polygon
DOT Highways
SDE_CulvEntr_Clip
SDE_Inlet_Clip
SDE_Manhole_Clip
SDE_Outfall_Clip
SDE_CulvertLN_Clip
SDE_OpenChLN_Clip
SDE_PipeLN_Clip
0 100 200 300 400 Feet
0 25 50 75 100 Meters
Sheet: C3
P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

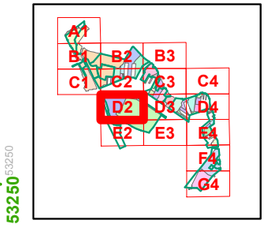
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **C4**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

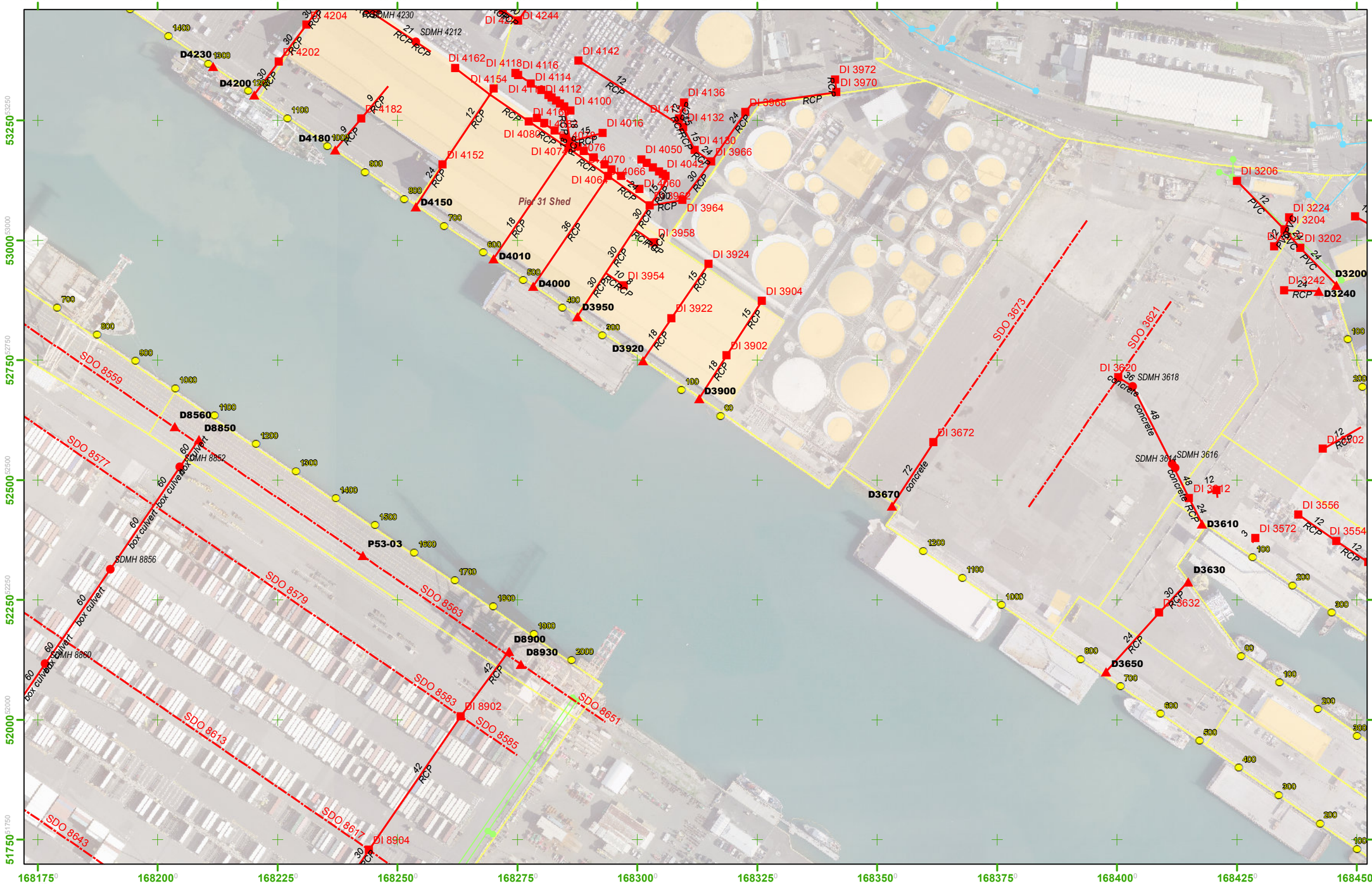
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

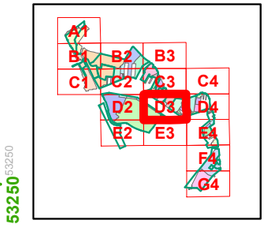
0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **D2**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd





STORM DRAINAGE HONOLULU

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

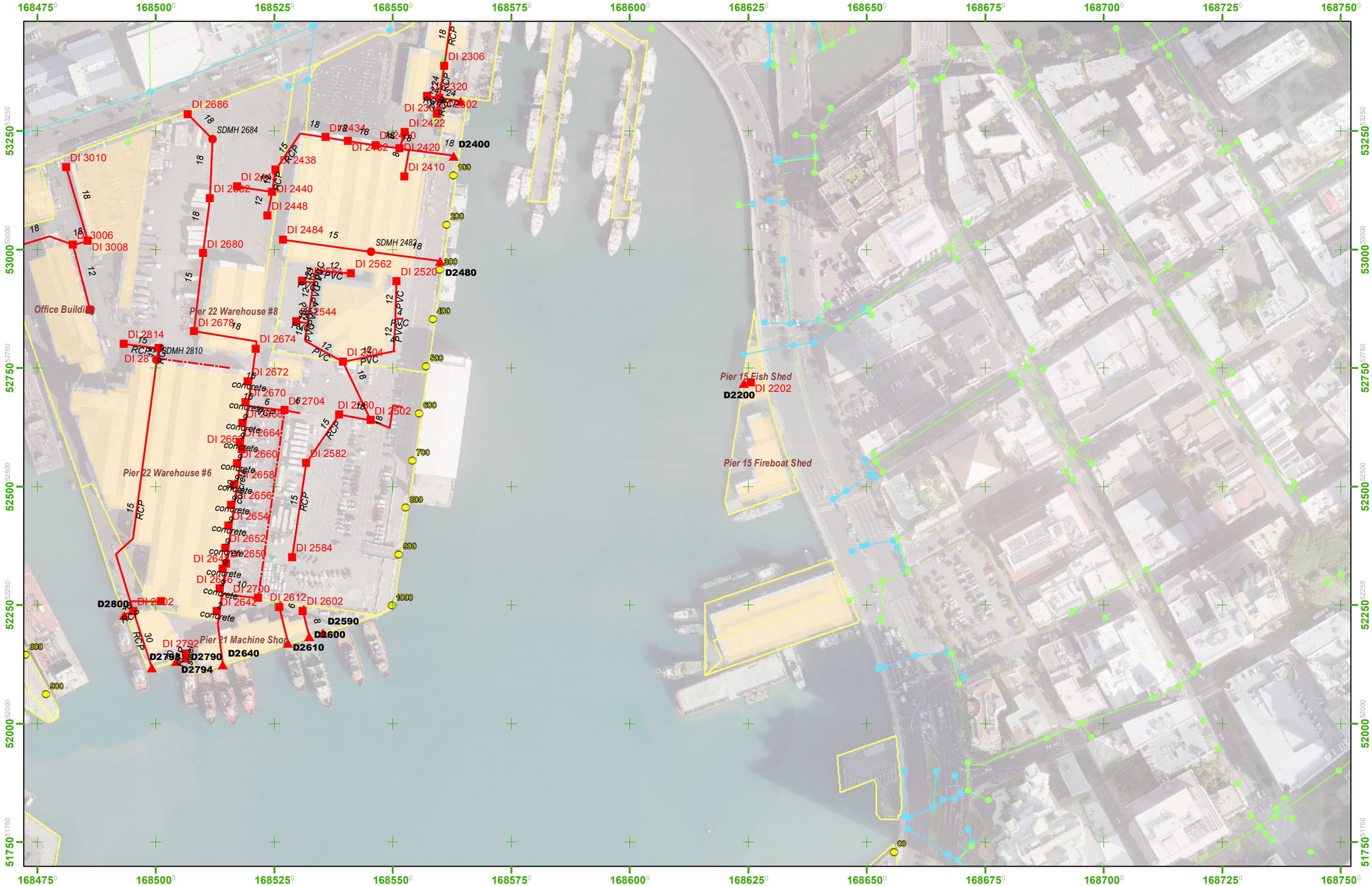
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

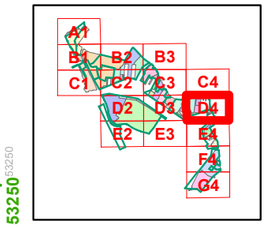
0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **D3**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd





STORM DRAINAGE HONOLULU

N
W E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

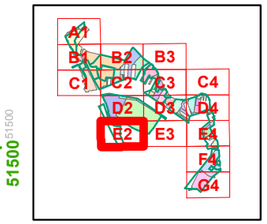
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

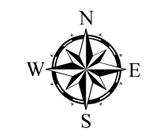
0 25 50 75 100 Meters

Sheet: **D4**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU



11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

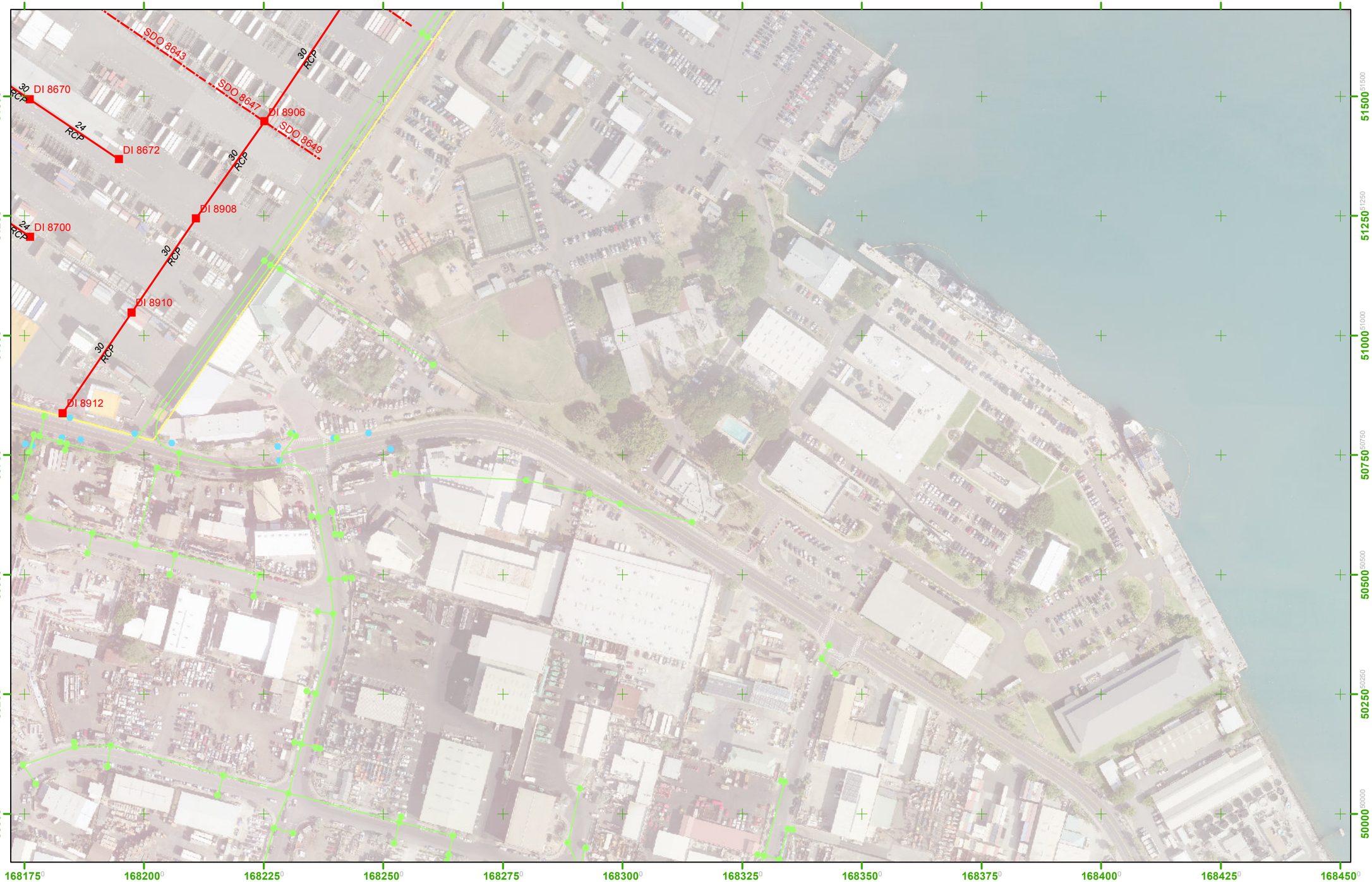
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

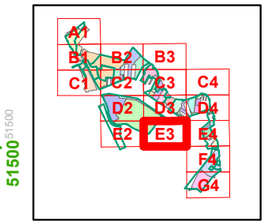
0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **E2**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd





STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

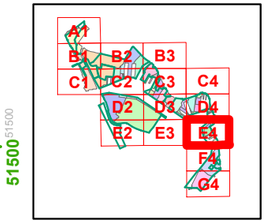
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **E3**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



STORM DRAINAGE HONOLULU

N W E S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

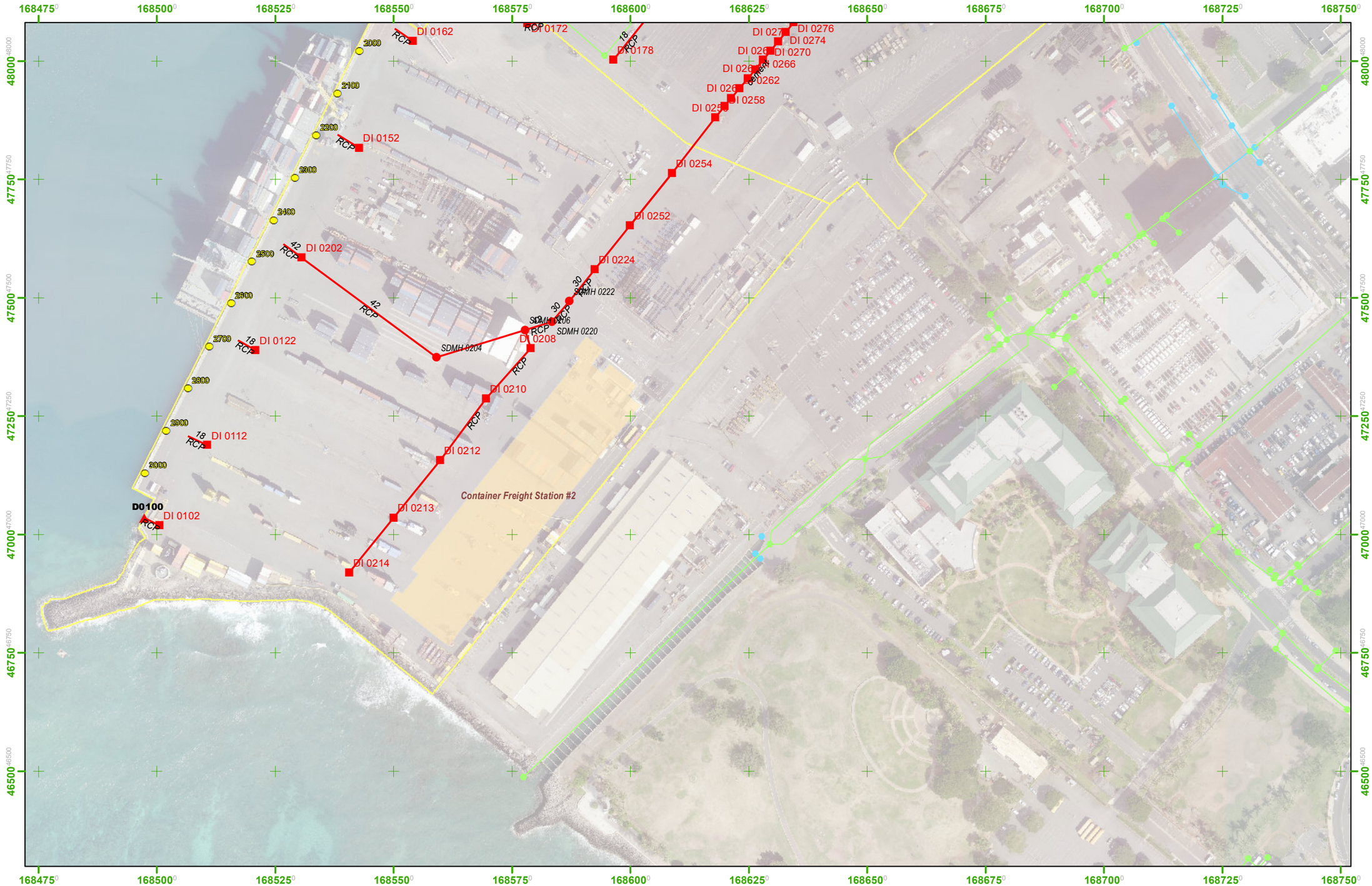
0 25 50 75 100 Meters

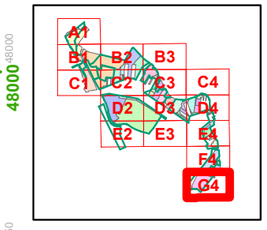
Sheet: **E4**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd

Sheet: **F4**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd





STORM DRAINAGE HONOLULU

N
W
E
S

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

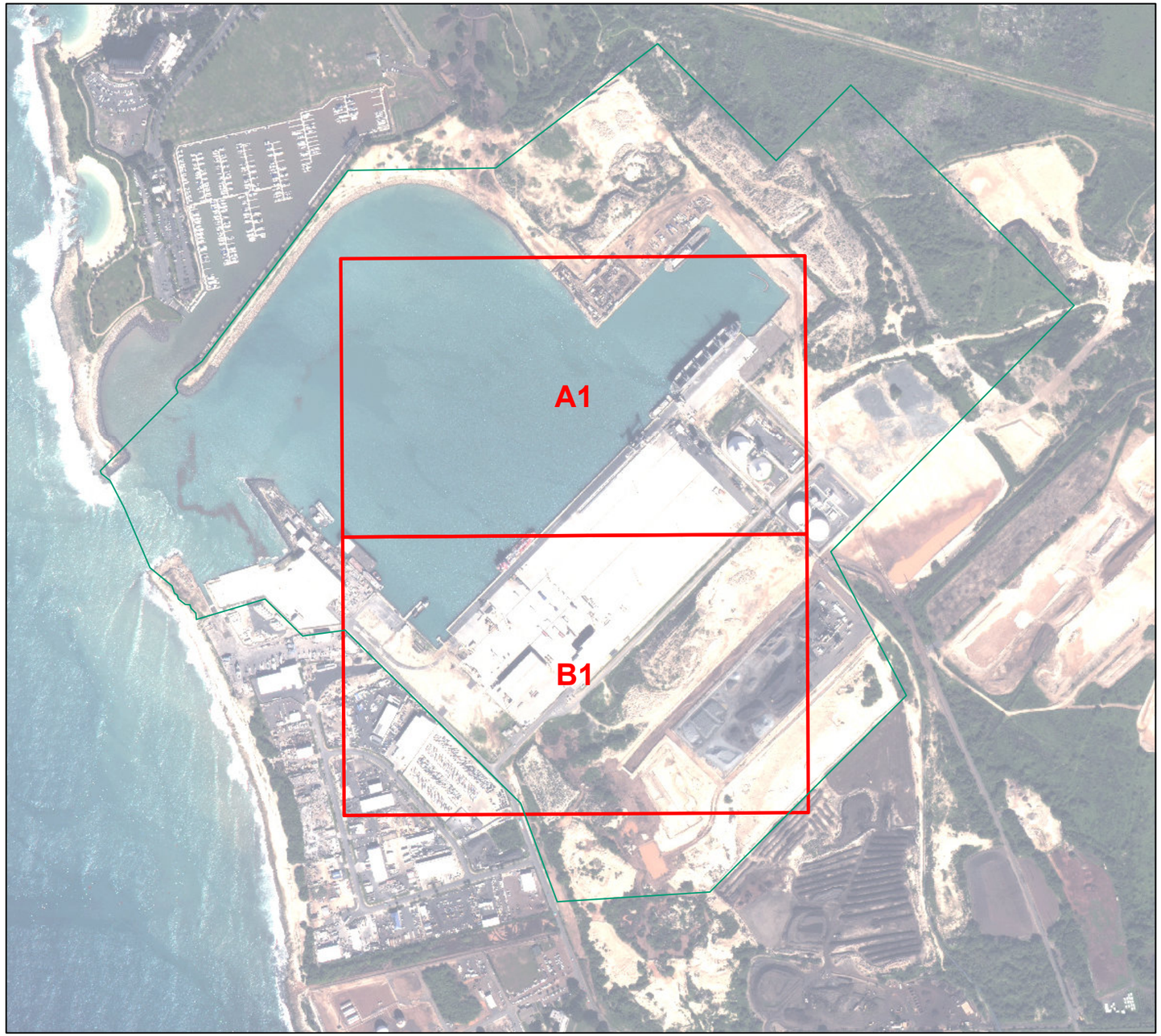
- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

0 100 200 300 400 Feet

0 25 50 75 100 Meters

Sheet: **G4**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd



This grid represents the sheets used in this map book.

Map Book of Storm Drain Features
KBPH

November 2014

STORM DRAINAGE KBPH

11 x 17 Mapbook
1" = 200'

DOT Harbors

- inlet (Arial, 8)
- open_line (Arial 8)
- junction (Arial Narrow, 7, italics)
- discharge (Arial Black, 7)
- line (Arial, 7, italics)
- buildings
- footmarker
- pier_footprint

City and County of Honolulu

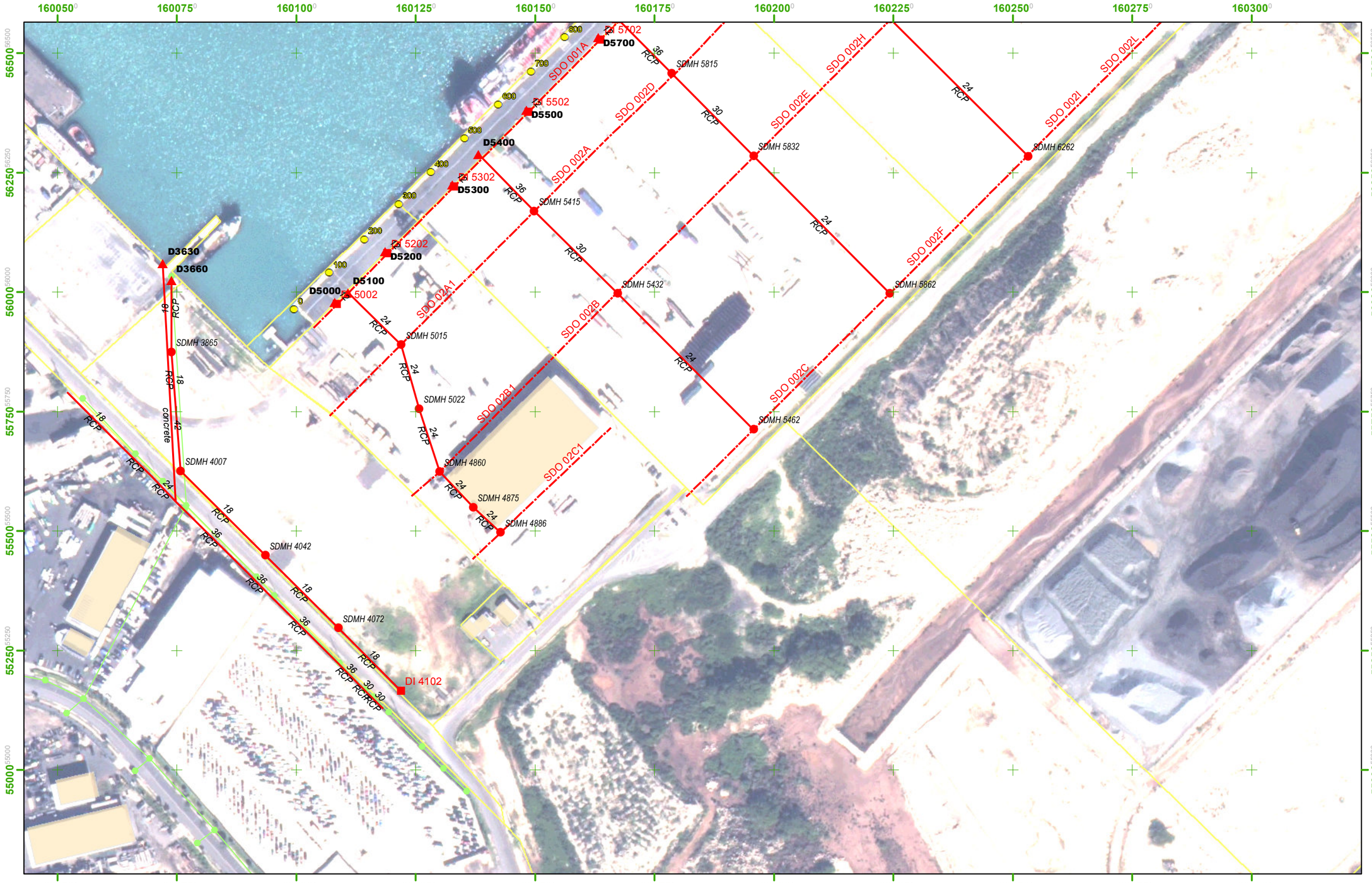
- CCH Node
- CCH Line
- CCH Polygon

DOT Highways

- SDE_CulvEntr_Clip
- SDE_Inlet_Clip
- SDE_Manhole_Clip
- SDE_Outfall_Clip
- SDE_CulvertLN_Clip
- SDE_OpenChLN_Clip
- SDE_PipeLN_Clip

Sheet: **A1**

P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd


160050
160075
160100
160125
160150
160175
160200
160225
160250
160275
160300
56500
56250
56000
55750
55500
55250
55000
D5700
D5500
D5400
D5300
D5200
D5100
D5000
D3630
D3660
DI 4102
SDMH 5815
SDMH 5832
SDMH 6262
SDMH 5415
SDMH 5432
SDMH 5862
SDMH 5015
SDMH 5022
SDMH 5462
SDMH 4860
SDMH 4875
SDMH 4886
SDMH 3865
SDMH 4007
SDMH 4042
SDMH 4072
SDO 001A
SDO 002D
SDO 002H
SDO 002E
SDO 002L
SDO 002I
SDO 002A
SDO 002F
SDO 002A1
SDO 002B
SDO 002C
SDO 002B1
SDO 02C1
concrete
STORM DRAINAGE
KBPH
11 x 17 Mapbook
1" = 200'
DOT Harbors
inlet (Arial, 8)
open_line (Arial 8)
junction (Arial Narrow, 7, italics)
discharge (Arial Black, 7)
line (Arial, 7, italics)
buildings
footmarker
pier_footprint
City and County of Honolulu
CCH Node
CCH Line
CCH Polygon
DOT Highways
SDE_CulvEntr_Clip
SDE_Inlet_Clip
SDE_Manhole_Clip
SDE_Outfall_Clip
SDE_CulvertLN_Clip
SDE_OpenChLN_Clip
SDE_PipeLN_Clip
A1
B1
N
S
E
W
0 100 200 300 400
Feet
0 25 50 75 100
Meters
Sheet: B1
P:\GIS\arcgismaps\Oahu\200 Scale Stormdrain mapbook - KBPH.mxd

Honolulu Harbor Outfall Summary for Mapping

The information presented below is based on outfall reconnaissance inventory (ORI) conducted on May 28, June 6, and September 30, 2014. Information from the field was compared to previous ORI, previous maps, and the Army Corps of Engineers (ACOE) map. Outfalls that were not inspected previously or during the two dates mentioned above were labeled as "not yet inspected" in outfall characterization category. That may be updated as inspections are completed. Additionally, in the instances where the outfalls were not safe to inspect, the upstream drain inspected has been included in parenthesis by the outfall name. Photos were not included of these outfalls since only the upstream drain had been observed. The following conclusions were made in regards to updates to the maps and which outfalls should be part of the Harbors ORI requirement:

<u>Pier 1</u>

- Black squares on ACOE map near DI 0152 are three apparently connected manholes. However, it did not appear that there was an outfall to the ocean although they were submerged. The first manhole was at foot marker 2500.

- Outfalls for DI 0112, 0122, 0202, 0152, 0162, and SDFHO02 were not previously assigned an outfall identification number, nor was there an identification number on ACOE map.

- P02-05 likely matches SDD 0170 due to proximity and drain pipeline size. Therefore, SDD 0110 was removed since that number had been created to match that outfall.

- DI 0152 included an adjacent manhole that appeared to be an overflow from the inlet. There was a small pipe connecting the inlet and manhole.

<u>Pier 4</u>

- Outfalls P04-00, P04-01, and P04-Box were determined to be DOT Highways outfalls and were removed from the Harbors ORI list.

Pier 8

- Outfalls P08-02, P08-07, P08-08, P08-09, P08-11 were found to be blocked pipes and therefore were removed from the Harbors ORI list.
- No ACOE identification number was assigned for P08-04 and P08-05 which are located between SDD 1512 and SDD 1520.

Pier 9

- Outfall P09-01 (SDD 1546) was found to be blocked and was removed from the Harbors ORI list.

Pier 11

- Outfall P11-01 was found to be blocked and removed from the Harbors ORI list.
- Outfalls P11-14, P11-15, and P11-16 were determined to be DOT Highways outfalls and were removed from the Harbors ORI list.
- All French drains appear to flow toward the harbor and therefore, each is assumed to have an outfall.
    - Outfall ID needed for FD 1744, 1764, 1766, 1796, 1798, SDMH 1782, FD 1794, 1824, 1834, 1836, 1854.
    - Identification number needed for these outfalls that were identified during previous inspections along Nimitz Highway between Pier 11 and 12: P11-17, P11-18, P11-19, P11-20.
- SDMH 1822 is not a storm drain.

Pier 12

- All outfalls determined to belong to DOT Highways and were removed from the Harbors ORI list.

Pier 19

- All drainage features did not match ACOE map. It was determined that some drains flow east toward the harbor and may be associated with outfalls.
    - Outfall ID needed for SDFHO 192552 (P19-07), SDFHO 192542 (P19-02), DI 2830 (P19-03), and DI 2502 (P19-04).
    - Outfall ID needed for P19-05 and P20-01. No upstream drainage features were correlated with available maps; however, they should be located south of P19-04 (DI 2502).

Pier 21

- P21-05 (SDD 2798) was determined to be sealed and therefore removed from the Harbors ORI list.

Pier 24

- Pier 24: Several small apparent outfalls were observed that were determined to be connections to roof drains that had been plugged. These were not included in the Harbors ORI list.

Pier 25

- Pier 25: P25-02 and P26-02 were sealed and removed from the Harbors ORI list.

Pier 31

- Located a new drain on the line for SDD 3920, between SDD 3920 and DI 4183 (east of SD 13902) and identification number is needed.
- DI 3954 appeared to discharge south, perhaps to SDD 3950.

Pier 32

- Located a new drain located west of 4160.

Pier 34

- P34-08, P34-09, P34-10, and P34-11 were removed because they did not connect to on-shore drains.

Pier 38

- Pier 38: P38-03 (SDD 5140), P38-05, P38-Outfall, P39-Outfall were removed from the Harbors ORI list because they were determined to be Highways outfalls.

Pier 45

- Pier 45: P44/45-02 removed due to lack of upstream nodes.
- P44/45-05 removed since it could not be located.

Pier 51

- Pier 51: All 9” outfalls along the top of the pier were removed from the Harbors ORI list since they had been sealed. The removed 9" outfalls included those previously identified as P51B-02, P51B-06, P51A-03, P51A-06, and P51A-08.
- Outfall ID needed for P51A-02
- Outfall ID needed for a 48 inch RCP outfall located between SDD 7850 and 7800 that was not previously identified.
- Outfall ID needed for a 42 inch RCP outfall located between SDD 8206 and SDD 8198 that was not previously identified.

Outfall ID	**SDD 0100**
Previous ID	*P01-01*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

NO PHOTO

Outfall ID	**To Be Verified (DI 0112)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	Partially

NO PHOTO

Outfall ID	**To Be Verified (DI 0122)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	Partially

NO PHOTO

Outfall ID	**To Be Verified (DI 0202)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	42 inches
Submerged	Fully

NO PHOTO

Outfall ID	**To Be Verified (DI 0152)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	
Submerged	

NO PHOTO

Outfall ID	**To Be Verified (DI 0162)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	
Submerged	Fully

Outfall ID	**To Be Verified (SDD 0110)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	1
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	16 inches
Submerged	No

Outfall ID	**SDD 0170 (DI 0172)**
Previous ID	*P02-05*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	

Outfall ID	**SDD 0130 (DI 0508)**
Previous ID	*P02-06*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	Partially

NO PHOTO

Outfall ID	**SDD 0500**
Previous ID	*No Previous ID*
Outfall Characterization	Not Inspected in 2014
Pier	2
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

NO PHOTO

Outfall ID	**To Be Verified (SDFHO02)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 0600**
Previous ID	*P02-11*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	

Outfall ID	**SDD 0630 (DI 0640)**
Previous ID	*P02-13*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	

Outfall ID	**SDD 0700**
Previous ID	*P03-02*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	

Outfall ID	**SDD 0720 (SDMH 0722)**
Previous ID	*24" Outfall*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	Partially

Outfall ID	**SDD 0800 (DI 0804)**
Previous ID	*18" Outfall*
Outfall Characterization	Unlikely
Pier	2
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 0956**
Previous ID	*P05-01*
Outfall Characterization	Unlikely
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 1000**
Previous ID	*P05-02*
Outfall Characterization	Unlikely
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 1040**
Previous ID	*P05-03*
Outfall Characterization	Unlikely
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	16 inches
Submerged	No

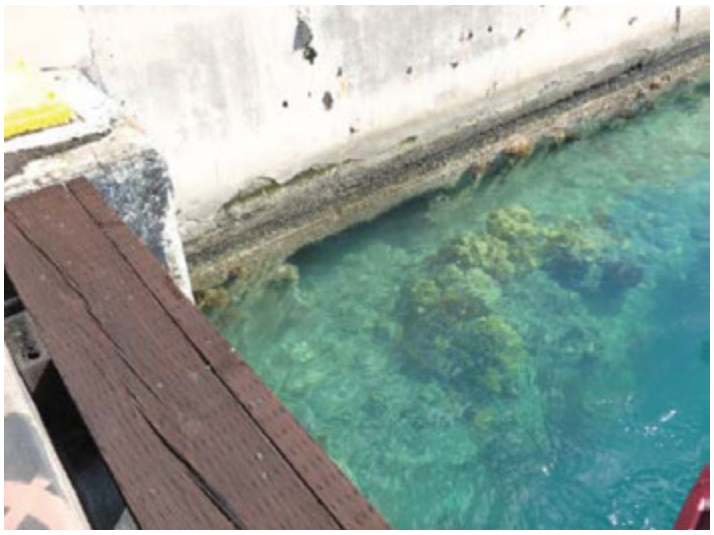
Outfall ID	**SDD 1150**
Previous ID	*P05-HECO2*
Outfall Characterization	Unlikely
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 1160**
Previous ID	*P05-HECO3 / P05-HECO4*
Outfall Characterization	Potentially
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Other
Grouping	Double
Dimensions	36 in. / 24 in.
Submerged	Partially

Outfall ID	**SDD 1190**
Previous ID	*P05-HECO5*
Outfall Characterization	Unlikely
Pier	5
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

NO PHOTO

Outfall ID	**SDD 1230**
Previous ID	*P07-03*
Outfall Characterization	Unlikely
Pier	7
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	96 in. x 36 in.
Submerged	Partially



Outfall ID	**SDD 1500**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 1508**
Previous ID	*P08-01*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

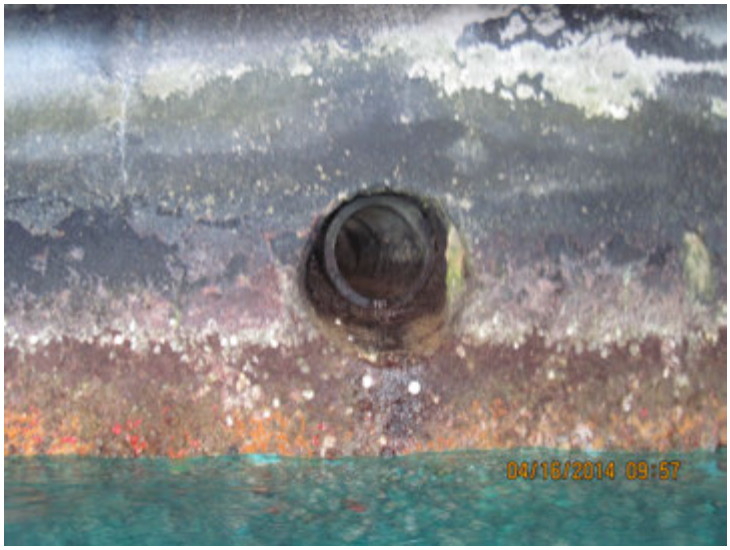
Outfall ID	**SDD 1512**
Previous ID	*P08-03*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 1520**
Previous ID	*P08-06*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 1530**
Previous ID	*P08-10*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Triple
Dimensions	6 in., 4 in., 3 in.
Submerged	No

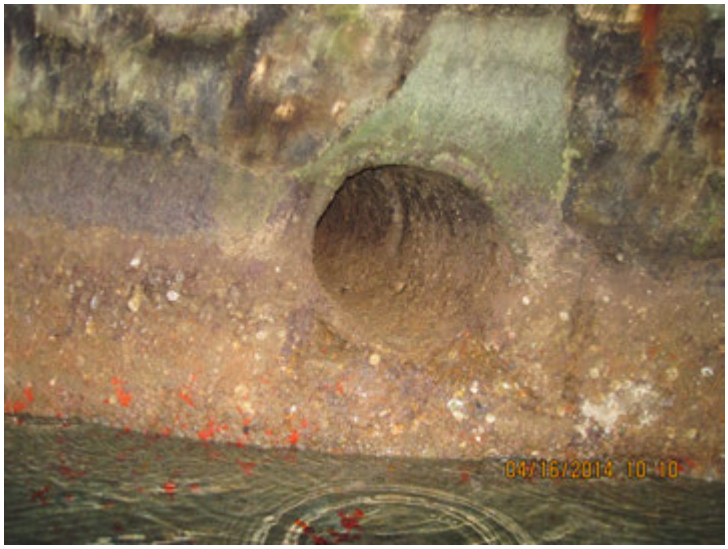
Outfall ID	**SDD 1540**
Previous ID	*P08-12*
Outfall Characterization	Unlikely
Pier	8
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 1552**
Previous ID	*P09-02*
Outfall Characterization	Unlikely
Pier	9
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No



Outfall ID	**SDD 1558**
Previous ID	*P09-03*
Outfall Characterization	Unlikely (AC condensate)
Pier	9
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 1570**
Previous ID	*P09-04*
Outfall Characterization	Potentially
Pier	9
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No



Outfall ID	**SDD 1600**
Previous ID	*P09-05*
Outfall Characterization	Unlikely
Pier	9
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 1710 (SDMH 1712)**
Previous ID	*P10-01*
Outfall Characterization	Unlikely
Pier	10
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

Outfall ID	**SDD 1720 (SDMH 1722)**
Previous ID	*P10-02*
Outfall Characterization	Unlikely
Pier	10
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

Outfall ID	**SDD 1730 (SDMH 1732)**
Previous ID	*P10-03*
Outfall Characterization	Unlikely
Pier	10
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	

Outfall ID	**SDD 1740**
Previous ID	*P11-02*
Outfall Characterization	Not Inspected in 2014
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	No

NO PHOTO

Outfall ID	**To Be Verified (FD 1744)**
Previous ID	*P11-03*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1764)**
Previous ID	*P11-04*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1766)**
Previous ID	*P11-05*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 1760 (SDMH 1782)**
Previous ID	*P11-06*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1798)**
Previous ID	*P11-07*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1796)**
Previous ID	*P11-08*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 1830 (FD 1794)**
Previous ID	*P11-09*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 1850 (FD 1824)**
Previous ID	*P11-10*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 1860 (FD 1836)**
Previous ID	*P11-11*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1834)**
Previous ID	*P11-12*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**To Be Verified (FD 1854)**
Previous ID	*P11-13*
Outfall Characterization	Unlikely
Pier	11
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

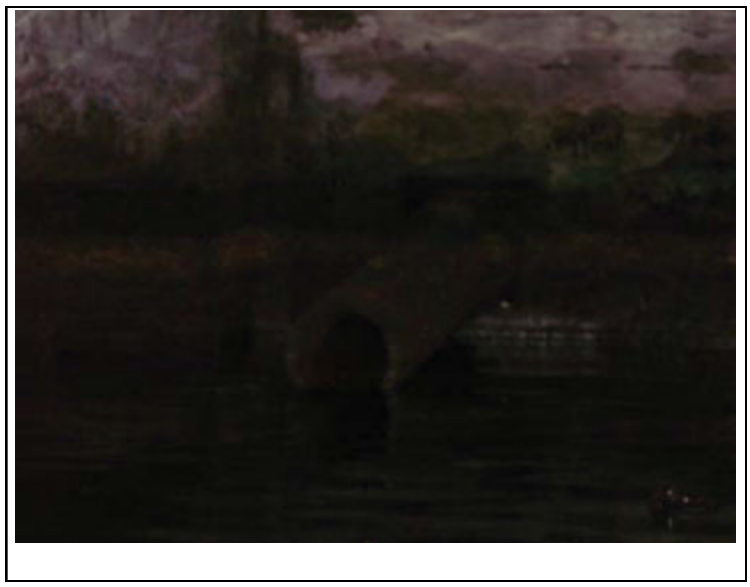
Outfall ID	**SDD 2200**
Previous ID	*P15-01*
Outfall Characterization	Unlikely
Pier	15
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	8 inches
Submerged	No

Outfall ID	**SDD 2300**
Previous ID	*P19-01*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	No

Outfall ID	**SDD 2400 (DI 2724)**
Previous ID	*P19-08*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	

Outfall ID	**To Be Verified (SDFHO 192552)**
Previous ID	*P19-07*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

Outfall ID	**SDD 2480 (DI 2484)**
Previous ID	*P19-06*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	



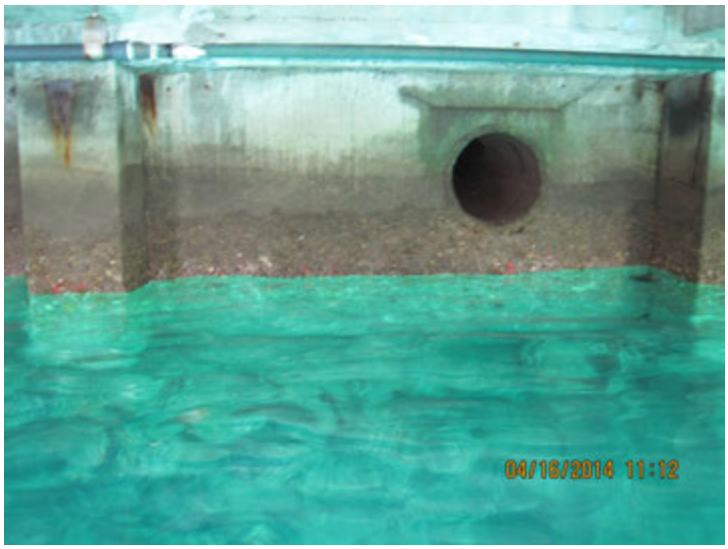
Outfall ID	**To Be Verified (SDFHO 192542)**
Previous ID	*P19-02*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

Outfall ID	**To Be Verified (DI 2830)**
Previous ID	*P19-03*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

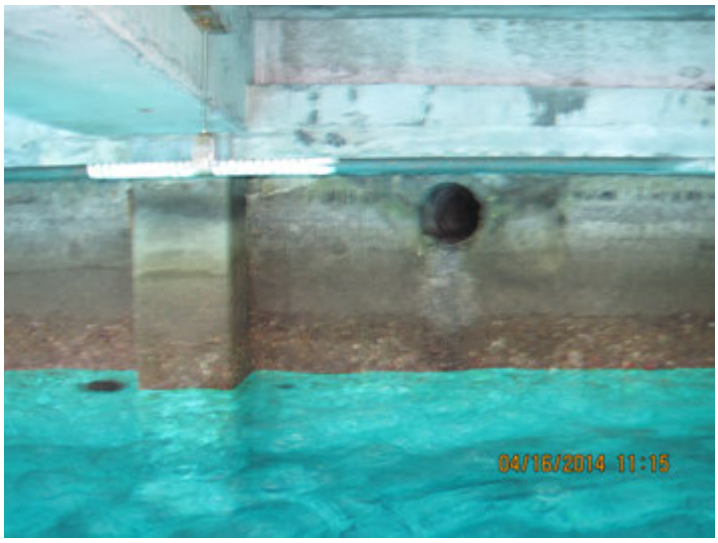
Outfall ID	**To Be Verified (DI 2502)**
Previous ID	*P19-04*
Outfall Characterization	Unlikely
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	

Outfall ID	**To Be Verified**
Previous ID	*P19-05*
Outfall Characterization	Not Inspected in 2014
Pier	19
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 2590**
Previous ID	*P21-07*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No



Outfall ID	**SDD 2600**
Previous ID	*P21-01*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No



Outfall ID	**SDD 2610**
Previous ID	*P21-02*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 2640**
Previous ID	*P21-03*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	48 in. x 30 in.
Submerged	No

Outfall ID	**SDD 2790**
Previous ID	*P21-06*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	10 in. x 10 in.
Submerged	No

Outfall ID	**SDD 2794**
Previous ID	*P21-04*
Outfall Characterization	Unlikely
Pier	21
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	Partially

Outfall ID	**SDD 2800**
Previous ID	*P22-01*
Outfall Characterization	Unlikely
Pier	22
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	Partially

Outfall ID	**SDD 3000**
Previous ID	*P23-01*
Outfall Characterization	Unlikely
Pier	23
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 3070**
Previous ID	*P23-02*
Outfall Characterization	Unlikely
Pier	23
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 3200**
Previous ID	*P23-03*
Outfall Characterization	Unlikely
Pier	23
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 3240**
Previous ID	*P24-01*
Outfall Characterization	Unlikely
Pier	24
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	No

Outfall ID	**SDD 3300**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	24
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Double
Dimensions	24 in. / 6 in.
Submerged	No

Outfall ID	**SDD 3500**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	24
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	No

Outfall ID	**SDD 3550**
Previous ID	*P25-01*
Outfall Characterization	Unlikely
Pier	25
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 3610**
Previous ID	*P26-01*
Outfall Characterization	Unlikely
Pier	26
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	No

Outfall ID	**SDD 3630**
Previous ID	*P27-01*
Outfall Characterization	Unlikely
Pier	27
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	Partially

Outfall ID	**SDD 3650**
Previous ID	*P29-02*
Outfall Characterization	Not Inspected in 2014
Pier	29
Land Use	Commercial
Type	Open Drainage
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	No

Outfall ID	**SDD 3670**
Previous ID	*P29-03*
Outfall Characterization	Not Inspected in 2014
Pier	29
Land Use	Commercial
Type	Open Drainage
Material	RCP
Shape	Box
Grouping	Single
Dimensions	60 in. x 24 in.
Submerged	No

Outfall ID	**SDD 3900 (SDI 3902)**
Previous ID	*P31-01*
Outfall Characterization	Unlikely
Pier	31
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 3920 (New Inlet)**
Previous ID	*P31-02*
Outfall Characterization	Unlikely
Pier	31
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

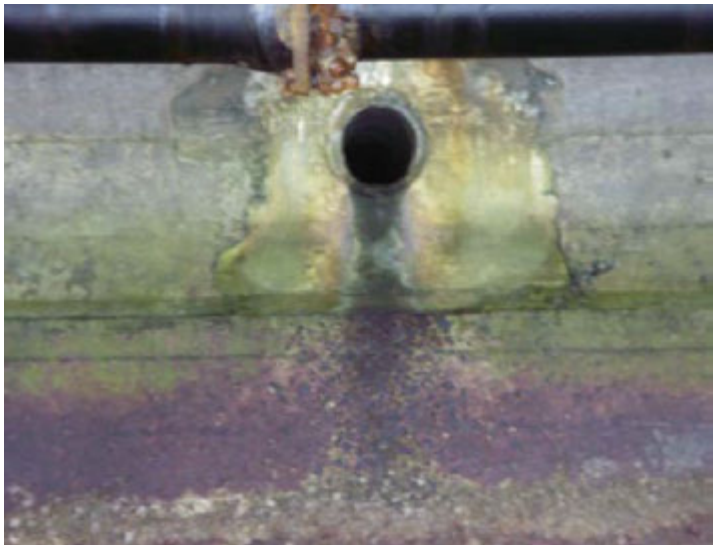
Outfall ID	**SDD 3950 (DI 3962)**
Previous ID	*P31-03*
Outfall Characterization	Unlikely
Pier	31
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4000 (DI 4062)**
Previous ID	*P32-01*
Outfall Characterization	Unlikely
Pier	32
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	

NO PHOTO

Outfall ID	**SDD 4010 (SDI 4072)**
Previous ID	*P32-02*
Outfall Characterization	Unlikely
Pier	32
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4150**
Previous ID	*P32-03*
Outfall Characterization	Not Inspected in 2014
Pier	32
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	



Outfall ID	**SDD 4180**
Previous ID	*P32-04*
Outfall Characterization	Not Inspected in 2014
Pier	32
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	9 inches
Submerged	No

Outfall ID	**SDD 4200 (DI 4232 & 4204)**
Previous ID	*P33-01*
Outfall Characterization	Unlikely
Pier	33
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4230 (To Be Verified)**
Previous ID	*P33-02*
Outfall Characterization	Not Inspected in 2014
Pier	33
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 4300 (DI 4302)**
Previous ID	*P34-01*
Outfall Characterization	Unlikely
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4310 (DI 4312)**
Previous ID	*P34-02*
Outfall Characterization	Unlikely
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4320 (DI 4322)**
Previous ID	*P34-03*
Outfall Characterization	Unlikely
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4350 (DI 4352)**
Previous ID	*P34-04*
Outfall Characterization	Unlikely
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	

Outfall ID	**SDD 4360**
Previous ID	*P34-05*
Outfall Characterization	Not Inspected in 2014
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 4370**
Previous ID	*P34-06 (Right)*
Outfall Characterization	Not Inspected in 2014
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	42 inches
Submerged	

Outfall ID	**SDD 4374**
Previous ID	*P34-06 (Left)*
Outfall Characterization	Not Inspected in 2014
Pier	34
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	42 inches
Submerged	

Outfall ID	**SDD 4410**
Previous ID	*P34-07*
Outfall Characterization	Not Inspected in 2014
Pier	34
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 4450**
Previous ID	*P35-01*
Outfall Characterization	Not Inspected in 2014
Pier	35
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 4460**
Previous ID	*P35-02*
Outfall Characterization	Not Inspected in 2014
Pier	35
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 4470**
Previous ID	*P35-03*
Outfall Characterization	Not Inspected in 2014
Pier	35
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 4500**
Previous ID	*P35-04*
Outfall Characterization	Unlikely
Pier	35
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Partially

Outfall ID	**SDD 4600**
Previous ID	*P35-05*
Outfall Characterization	Unlikely
Pier	35
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	No

Outfall ID	**SDD 4700**
Previous ID	*P36-01*
Outfall Characterization	Potentially
Pier	36
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 4900**
Previous ID	*P37-01*
Outfall Characterization	Unlikely
Pier	37
Land Use	Commercial
Type	Open Drainage
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	No

Outfall ID	**SDD 5000**
Previous ID	*P37-02*
Outfall Characterization	Unlikely
Pier	37
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 5050**
Previous ID	*P38-01*
Outfall Characterization	Potentially
Pier	38
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 5100**
Previous ID	*P38-02*
Outfall Characterization	Unlikely
Pier	38
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	Partially

Outfall ID	**SDD 5150**
Previous ID	*P38-04*
Outfall Characterization	Unlikely
Pier	38
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	Partially

Outfall ID	**SDD 5800**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	40
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 6500**
Previous ID	*P41-03*
Outfall Characterization	Unlikely
Pier	41
Land Use	Industrial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	108 in. x 96 in.
Submerged	Partially

Outfall ID	**SDD 6970**
Previous ID	*P41-01*
Outfall Characterization	Unlikely
Pier	41
Land Use	Industrial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	No

Outfall ID	**SDD 6980**
Previous ID	*P41-02*
Outfall Characterization	Not Inspected in 2014
Pier	41
Land Use	Industrial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 6990**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	41
Land Use	Industrial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	Partially

Outfall ID	**SDD 7030**
Previous ID	*P42-01*
Outfall Characterization	Not Inspected in 2014
Pier	42
Land Use	Industrial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 7060**
Previous ID	*P42-PSI*
Outfall Characterization	Not Inspected in 2014
Pier	42
Land Use	Industrial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 7560**
Previous ID	*P44/45-04*
Outfall Characterization	Not Inspected in 2014
Pier	0
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**To Be Verified (SDD 7580)**
Previous ID	*P44/45-03*
Outfall Characterization	Not Inspected in 2014
Pier	0
Land Use	Commercial
Type	Open Drainage
Material	
Shape	
Grouping	
Dimensions	
Submerged	

Outfall ID	**SDD 7600**
Previous ID	*P44/45-01*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 7800**
Previous ID	*P51A-01*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	30 inches
Submerged	Partially

Outfall ID	**SDD 7850**
Previous ID	*P51A-07*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 7880**
Previous ID	*P51A-05*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Partially

Outfall ID	**SDD 7960**
Previous ID	*P51A-04*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Partially

Outfall ID	**To Be Verified (SDD 8000)**
Previous ID	*P51B-07*
Outfall Characterization	Potentially
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	42 inches
Submerged	No

Outfall ID	**To Be Verified (SDD 8070)**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	Fully

Outfall ID	**SDD 8080**
Previous ID	*P51B-05*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	18 inches
Submerged	No

Outfall ID	**SDD 8090**
Previous ID	*P51B-03*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	24 inches
Submerged	No

Outfall ID	**SDD 8182**
Previous ID	*P51B-04*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 8130**
Previous ID	*P51C-01*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Fully

Outfall ID	**SDD 8190**
Previous ID	*P51C-05*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 8194**
Previous ID	*P51C-06*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 8198**
Previous ID	*P51C-04*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 8200**
Previous ID	*No Previous ID*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	Fully

Outfall ID	**SDD 8206**
Previous ID	*P51C-02*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 8210**
Previous ID	*P51C-03*
Outfall Characterization	Unlikely
Pier	0
Land Use	Commercial
Type	Closed Pipe
Material	Steel
Shape	Circular
Grouping	Single
Dimensions	6 inches
Submerged	No

Outfall ID	**SDD 8442**
Previous ID	*P52-05*
Outfall Characterization	Unlikely
Pier	52
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	12 in. x 12 in.
Submerged	No

Outfall ID	**SDD 8500**
Previous ID	*P52-01*
Outfall Characterization	Unlikely
Pier	52
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Partially

Outfall ID	**SDD 8556**
Previous ID	*P52-04*
Outfall Characterization	Unlikely
Pier	52
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 8560**
Previous ID	*P52-03*
Outfall Characterization	Unlikely
Pier	52
Land Use	Commercial
Type	Closed Pipe
Material	PVC
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 8850**
Previous ID	*P52-02*
Outfall Characterization	Unlikely
Pier	52
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Box
Grouping	Single
Dimensions	96 inches
Submerged	Partially

Outfall ID	**SDD 8870**
Previous ID	*P53-03*
Outfall Characterization	Unlikely
Pier	53
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 8900**
Previous ID	*P53-02 (right)*
Outfall Characterization	Unlikely
Pier	53
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	36 inches
Submerged	Partially

Outfall ID	**SDD 8910**
Previous ID	*P53-02 (left)*
Outfall Characterization	Unlikely
Pier	53
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Outfall ID	**SDD 8930**
Previous ID	*P53-01*
Outfall Characterization	Unlikely
Pier	53
Land Use	Commercial
Type	Closed Pipe
Material	RCP
Shape	Circular
Grouping	Single
Dimensions	12 inches
Submerged	No

Attachment 7. Storm Drain Labeling

a. Medallions Ordered
b. Photo of Stenciled Drain

Master artwork may not be reproduced without the prior written consent of das.
© 2014 das Manufacturing, Inc.

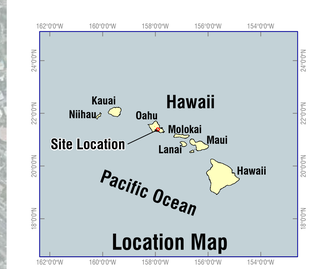
5" / COLORS: FULL COLOR DIGITAL

JW PROOF #3 DAS P.N. 5.0 HI-DOT / 09-23-2014

DUMP NO WASTE

DRAINS TO OCEAN

Attachment 8. Educational Signs Location Maps



Legend

- Sign Location
- Outfall
- Drain Box
- Trash Dumpster
- Structure Footprint
- Catch Basin
- Storm Drain Piping - from onsite
- Storm Drain Piping - from offsite
- Non-HDOT Property
- Harbors TMK

N E S W

0 450 900
Feet
1 inch = 450 feet

HDOT Honolulu Harbor Suggested Sign Locations

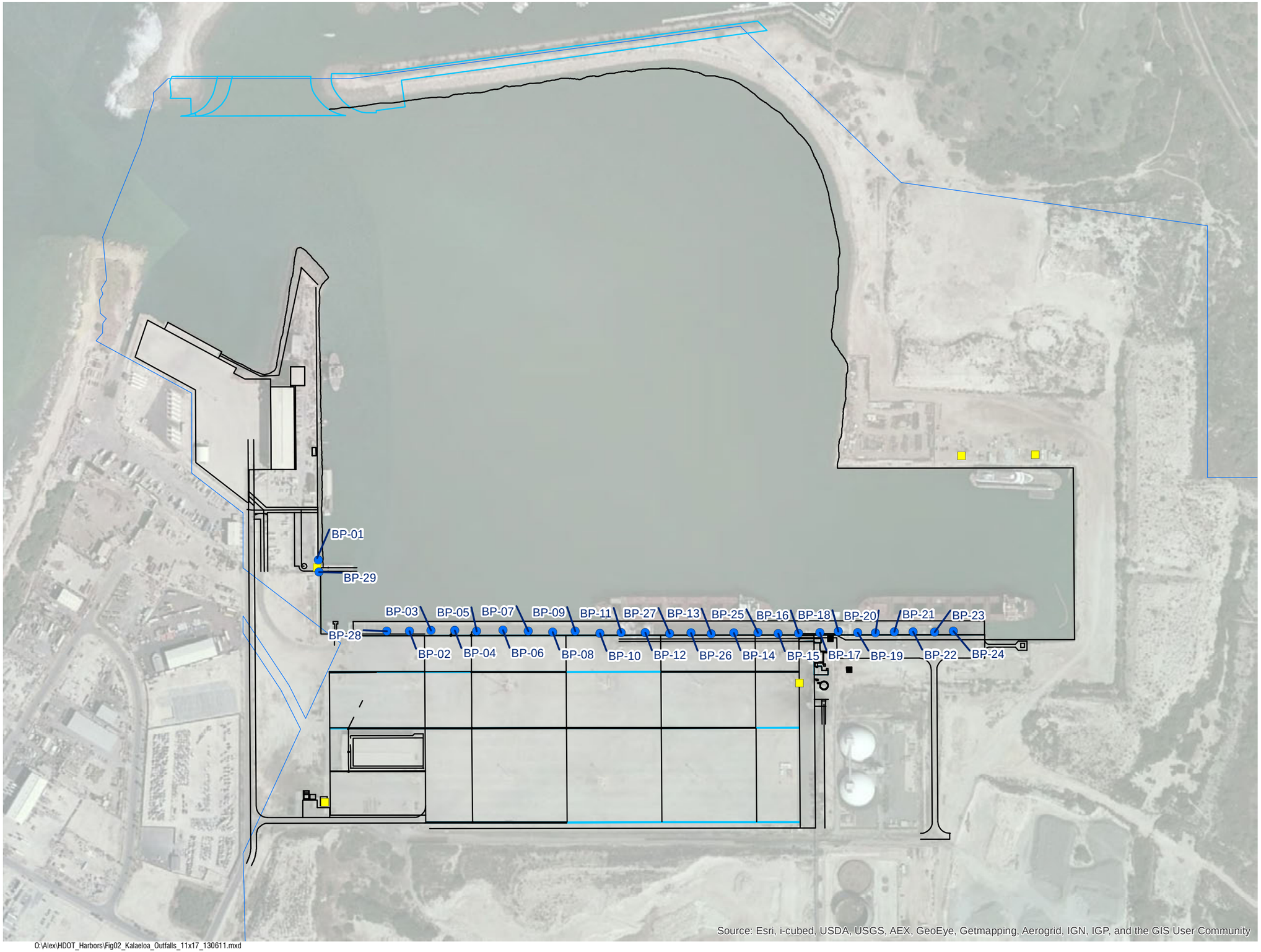
Hawaii Department of Trasportation
Harbors Division

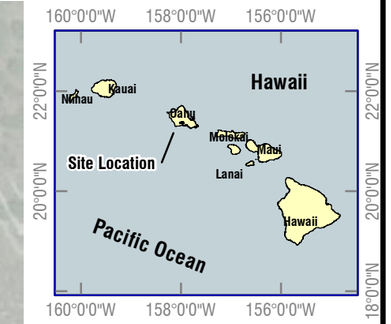
FIGURE
1

WESTON SOLUTIONS
841 BISHOP STREET SUITE 2301 HONOLULU, HAWAII 96813 808.585.0448

DRAWN	DATE	CONTRACT NO.
AD	2013-JUN	XXXXXX-XX-X-XXXX
CHECKED	CHECK DATE	WORK ORDER NUMBER
M. AMBLER	2013-JUN	13682.004.002.4000.00

O:\Alex\HDOT_Harbors\HonoluluHarbor_SizeE_CAD130611.mxd





Location Map

Legend

- ORI Outfalls
- Sign Location
- Structure Footprint
- Storm Drain Piping
- Harbors TMK

0 200 400
Feet
1 inch = 400 feet

HDOT Kalaeloa Harbor Suggested Sign Locations

Hawaii Department of Transportation
Harbors Division

FIGURE 2

WESTON SOLUTIONS
841 BISHOP STREET SUITE 2301 HONOLULU, HAWAII 96813 808.275.2500

DRAWN: AD	DATE: 2013-JUN	CONTRACT NO: XXXXXX-XX-X-XXXX
D-CHP: M. AMBLER	CHECKED: 2013-JUN	WORK ORDER NUMBER: 13682.004.002.4000.00

O:\Alex\HDOT_Harbors\Fig02_Kalaeloa_Outfalls_11x17_130611.mxd

Attachment 9. Tenant Environmental Manager of the Year (TEMY) Award

EXECUTIVE CHAMBERS

HONOLULU

NEIL ABERCROMBIE
GOVERNOR

August 28, 2014

Mr. Stephen Hinton, Vice President
Marisco, Ltd.
91-607 Malakole Street
Kapolei, Hawaii 96707

Dear Mr. Hinton:

I am pleased to present you with our fourth annual State of Hawaii Department of Transportation, Harbors Division, Tenant Environmental Manager of the Year award in our medium and high risk Category A.

Each year, the Harbors Division recognizes the tenant environmental manager who has implemented exemplary environmental and safety practices, and fosters an exceptional company environmental culture. I applaud your efforts as a leader in promoting sustainability and protecting our harbor waters at Kalaeloa Barbers Point.

Your environmental program was selected from 46 high/medium risk tenant programs evaluated during our 2013 annual Storm Water Compliance inspections. The award acknowledges the positive contributions you and your company have made toward protecting our valuable ocean resources as well as your involvement in community outreach events. The programs at your facility and your valuable influence in making environmental awareness a key component of your company culture is genuinely appreciated. Your program is a model for similar facilities and a positive example for others to follow as they improve their environmental and safety systems.

Congratulations and please continue to work with the Harbors Division and your fellow tenants in keeping our harbor waters clean for future generations. *Malama i ke kai!*

Sincerely,

NEIL ABERCROMBIE
Governor, State of Hawaii

THE STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISON

presents the

2014 TENANT ENVIRONMENTAL MANAGER OF THE YEAR

to

STEPHEN HINTON

Marisco, Ltd.

for

Exemplary Management of a Tenant Stormwater Program Focused on Directing Meaningful Change

Attachment 10. Tenant Training

a. Presentation
b. Sign-In Sheets
c. Training Feedback Summary

HDOT – Harbors
Tenant Stormwater Training

Photo by: To-Hawaii.com

MĀLAMA I KE KAI –

Protect Our Harbor Waters

Welcome!

- Introduction – Randy Grune, Deputy Director – Harbors and Randal Leong, Environmental Section Head.
- Program Goals.
- Applicable Regulations.
- Tenant Inspections.
- Best Management Practices.
- Spill Response.
- Illicit Discharge Detection and Elimination.
- Construction and Post-Construction Requirements.
- Volunteer Opportunities.
- Please turn in your tenant survey questionnaire.

PLEASE ASK QUESTIONS AT ANY TIME!

Harbor Statistics

- Harbors are vital to Hawaii.
  - Every year:
    - More than 11 million tons of cargo are handled.
      - $3.3 billion in imports.
      - $200 million in exports.
    - 500,000 cruise ship passengers go through the harbor.
  - Hawaii imports over 80% of required goods and **98% of that comes through the harbor**!
- ***It is crucial that we work together to protect our harbors while supporting our State's vital ocean commerce!***

TEMY Award

- Tenant Environmental Manager of the Year Award.
  - Given to the tenant that has displayed excellence in environmental compliance.
  - Ranked based on specific criteria identified during inspection.
    - *Note: In 2013 only medium & high risk tenants were inspected and considered for this award.

TEMY Criteria

- Stormwater Training Attendance
- Timely Correction of Noted Deficiencies
- Deficiencies Were Not Repeated
- BMPs Were Implemented Beyond the Minimum
- Necessary Permits Available for Review
- Tenant Courteous During Inspection
- Manager Has Ability to Implement Changes
- All Employees Trained
- Steps Taken to Reduce Risk to Environment from Activities
- No Enforcement (Jan 2013 – July 2014)
- Other Exemplary Actions

TEMY Honorable Mention

- Mr. Nathan Kapule
  - Young Brothers, Ltd.
  - Moana Pa'a Kai, Inc.
- Mr. Edward Au
  - Asphalt Hawaii
- Mr. Frank Roznerski
  - Hawaii Stevedores, Inc.
  - Horizon Lines, LLC
- Mr. Marshall Joy
  - Jems Enterprises, LLC
- Mr. Ralph Dewitt
  - P&R Water Taxi, Ltd.

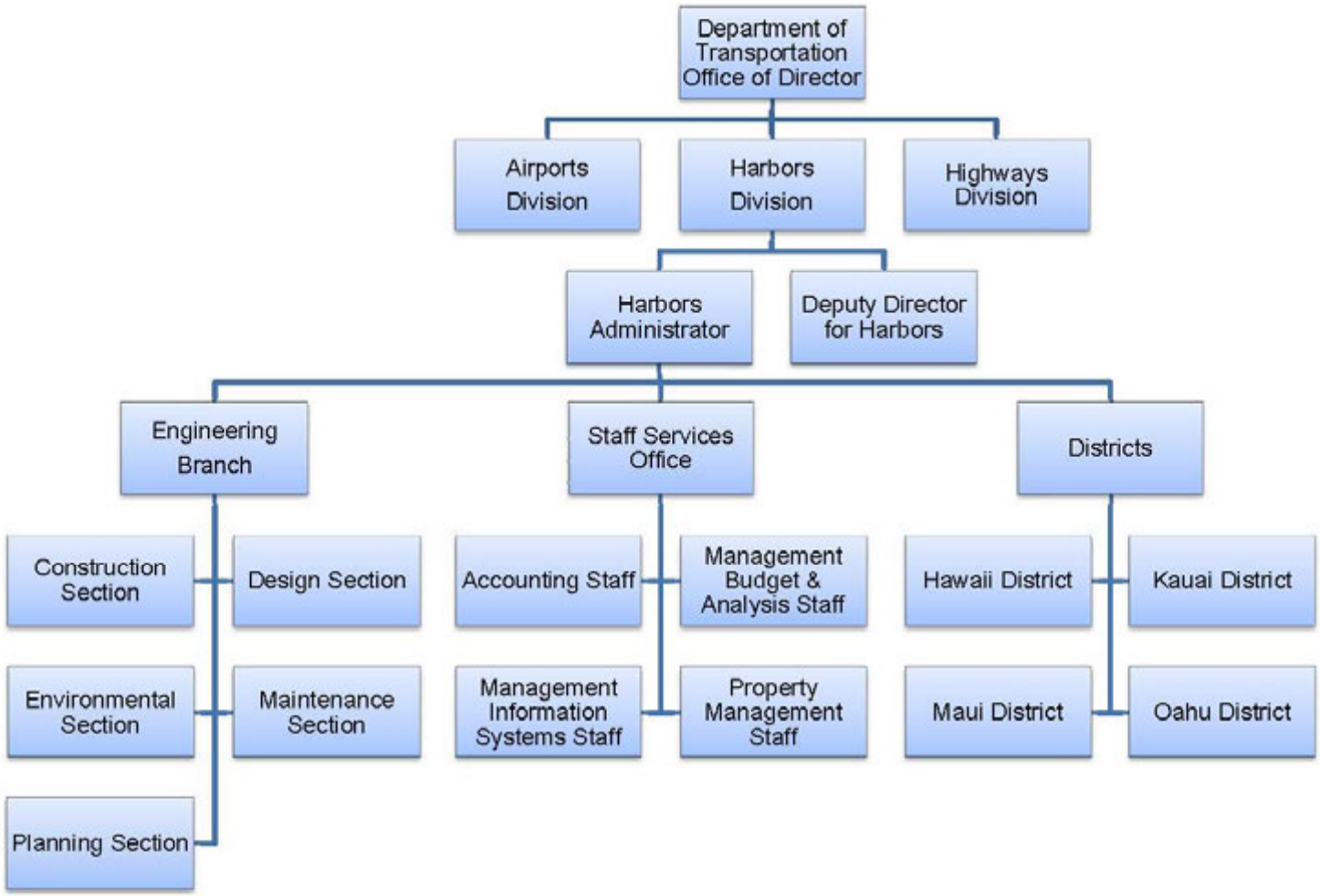
2014 TEMY Award Winner!

MR. STEPHEN HINTON

of Marisco, Ltd.

Harbors Division Organization

State of Hawaii Department of Transportation, Harbors Division
Organizational Chart



Program Goals

- Work together to:
  - Protect our Harbor waters.
    - For our own use.
    - For the local economy.
    - To protect the environment.
  - Comply with environmental laws.
    - Details for compliance per the Storm Water Management Plan (SWMP).

Environmental Laws

Environmental Protection Agency

- Code of Federal Regulations.

State of Hawaii Department of Health

- Hawaii Revised Statutes (HRS).
- Hawaii Administrative Rules (HAR).

HDOT, Harbors

- HRS & HAR for Harbors Division.
- MS4 NPDES Permits & Storm Water Management Plan.

Tenant Facilities

- Industrial NPDES permits.
- Storm Water Pollution Control Plan.

NPDES Program

- National Pollutant Discharge Elimination System
  - 40 CFR 122 and HAR 11-54 & 55.
  - Goal is to ensure that waters remain swimmable and fishable.
  - Regulates storm water discharges.

- Types of NPDES permits:
  - Municipal Separate Storm Sewer System (MS4).
    - Required for discharges from storm drain system.
  - Industrial.
    - Required based on facility SIC code and activities conducted (e.g. maintenance, washing, fueling, etc.)
  - Construction.
    - Required for sites disturbing 1 or more acres of land.

MS4 NPDES Permits

- Storm drain system that conveys the runoff.
- Harbors MS4 Permits:
  - HI 03KB482: Honolulu Harbor.
  - HI 03KB488: Kalaeloa Barbers Point Harbor.
- Storm Water Management Plan (SWMP) describes how Harbors will comply with the permit.
  - Available on the website: http://hidot.hawaii.gov/harbors/library/storm-water-management/
  - Will be updated near the end of 2014!
  - Will be posted on the website for comments.
- Annual report submitted to the EPA/DOH to describe compliance.

Small MS4 Requirements

Public Education

Public Involvement

Illicit Discharge Detection and Elimination

Construction

Post-Construction

Pollution Prevention and Good Housekeeping

Industrial NDPES Requirements

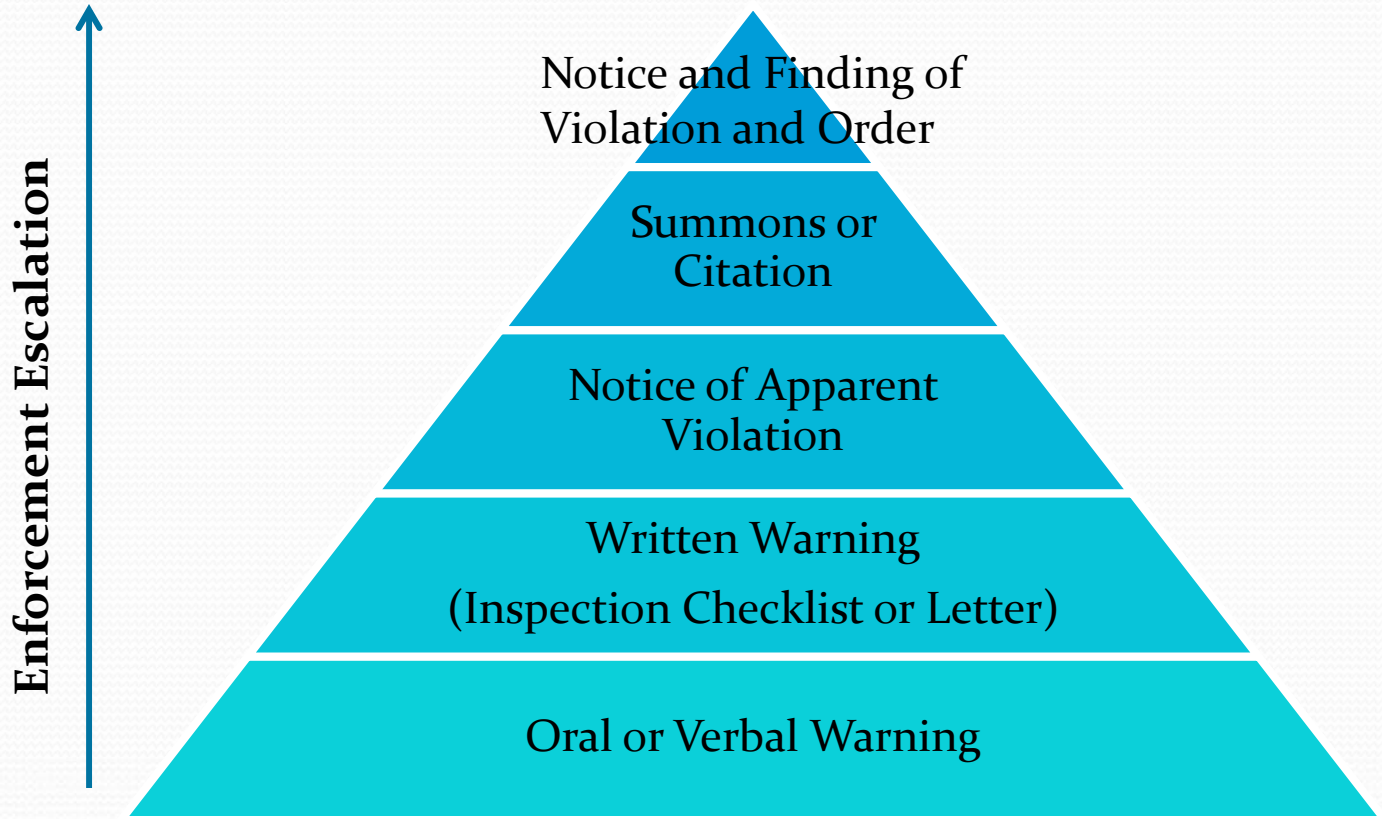
- Rules were updated by DOH on December 6, 2013.
- Keep a copy of Notice of General Permit Coverage (NGPC) from DOH on-site.
- Prevention violations of water quality.
- Implement the facility Storm Water Pollution Control Plan (SWPCP).
- Conduct storm water monitoring.
  - Goal is to measure potential pollutant load leaving the facility.
  - Provide the results to the DOH annually.

Vessel General Permit (VGP)

- Covers discharges incidental to normal operations from commercial vessels.
  - Examples: ballast water or bilge water.
- Vessels may not violate water quality per HAR 11-54.
- Prohibited discharges include:
  - Sewage.
  - Garbage.
  - Used oil.
  - Degreasers.
  - Toxic chemicals.
  - Discharges that have a high or low temperature.
- Notify the National Response Center (1-800-424-8802), DOH, and Harbors Traffic Control in the event of a spill or release.
- Effective December 19, 2013:
  - Commercial vessels greater than 79 ft in length must apply for coverage under the DOH VGP.
  - Commercial vessels less than 79 ft in length must apply for coverage under the DOH Small VGP.

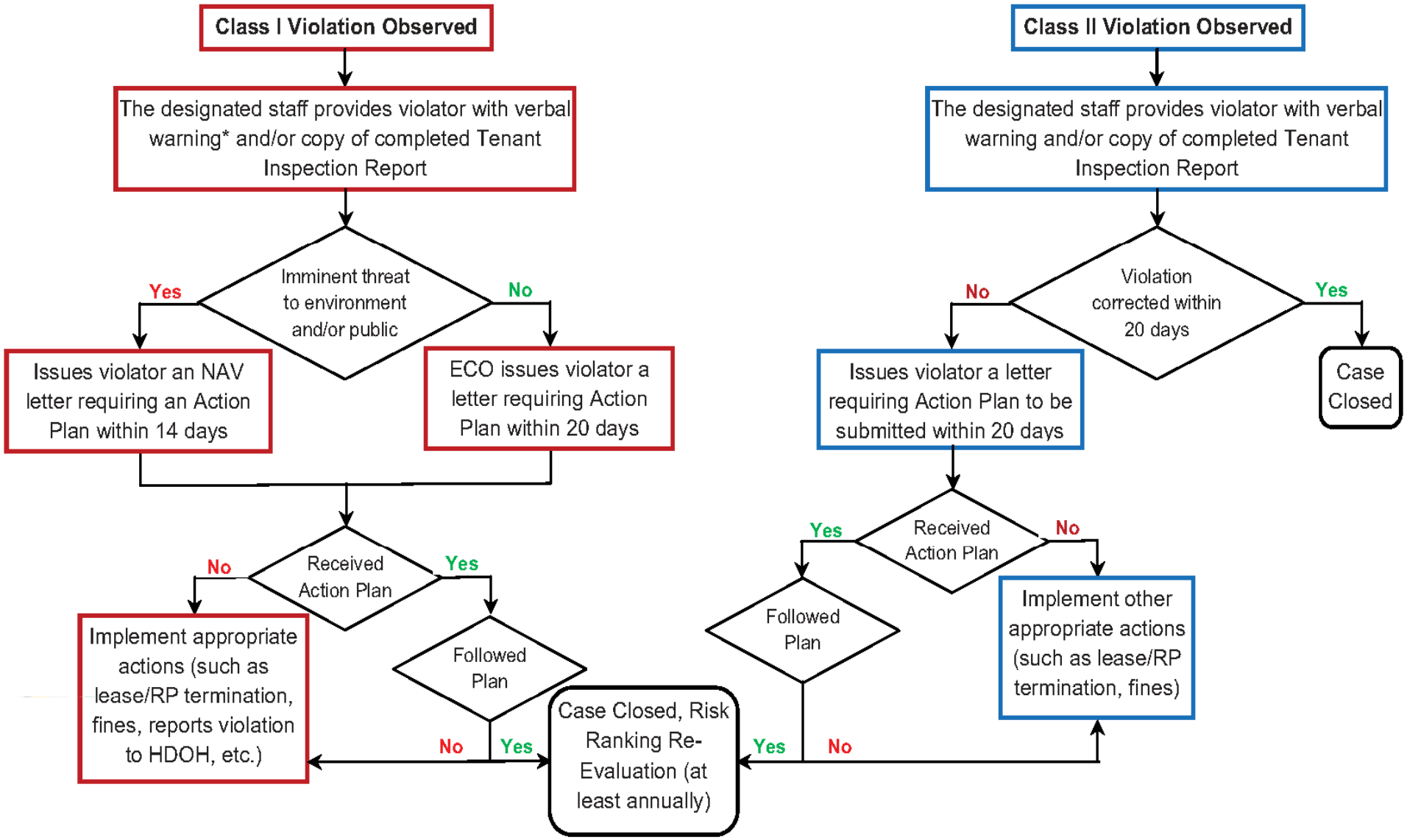
Harbors Enforcement

- Failure to comply with environmental regulations, plans, and policies may result in enforcement.



New Administrative Rules are being created which will add civil fines.

Harbors Enforcement Actions

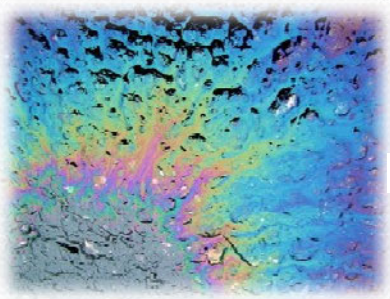


Regulatory Enforcement

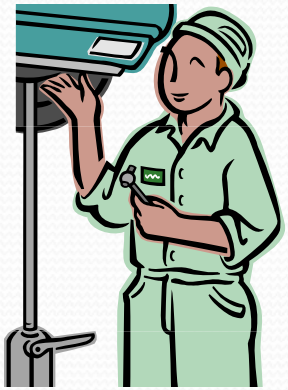
- Enforcement may be applied by the EPA and DOH.
- Fines are accrued **per offense per day**.
- Types of fines from DOH:
  - Civil - up to $25,000.
  - Administrative.
    - Negligent- $2,500 to $25,000 (may include up to 1 year imprisonment).
    - Knowing- $5,000 to $50,000 (may include up to 3 years imprisonment).
    - Knowing Endangerment- up to $250,000 and 15 years imprisonment for a single party. Organizations can be fined up to $1 million.

Stormwater Discharges

- Stormwater carries pollutants generated during outside activities to the nearest storm drains or waterways.
- Stormwater is **<u>not</u>** treated before it is discharged to the ocean.
- Therefore, it is critical that we control our pollutant sources **<u>before</u>** stormwater carries them into our harbor waters.



Common Activities



- Maintenance.
- Fueling.
- Washing.
- Aboveground Storage Tanks (AST).
- Hazardous Materials Use and Storage.
- Wastes Handling and Disposal.
- Ground Disturbance.
- Spills.

Common Pollutants

Trash

Sediment / Aggregate

Paints / Solvents

Wastewater / Detergents

Vehicle Fluids

Chemical Storage

Stormwater Impacts

Best Management Practices

- What is a best management practice (BMP)?
  - Structural device or system.
  - Operational or procedural practice.
  - Designed to prevent the release of pollutants to harbor.
    - BMPs are **specific** to a facilities' operations.
- Where are BMPs found?
  - Facility SWPCP Plan.
  - Harbors Website:

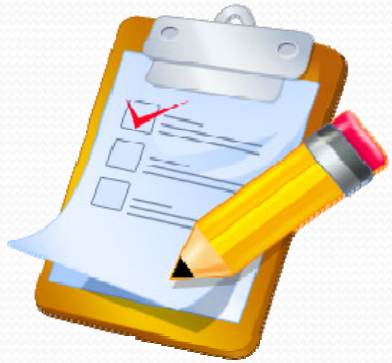
    http://hidot.hawaii.gov/harbors/library/storm-water-management/.
  - Environmental Protection Agency BMP Menu.

    http://cfpub.epa.gov/npdes/stormwater//menuofbmps.

Harbors Environmental Inspections

- Purpose:
  - Ensure BMPs are implemented.
  - Ensure compliance with environmental laws.
- Per lease agreement or revocable permit, tenant is responsible for:
  - Complying with all environmental laws (e.g. obtaining NPDES permits).
  - Obtaining Harbors approval prior to:
    - Bringing any EPA regulated hazardous substance or chemical on-site.
    - Washing vehicles and equipment.
    - Any substantial site improvements.

Inspection Types and Frequency



- New tenants:
  - Within 3 months of tenant occupancy.
- Routine inspections per risk ranking:
  - High = Every 6 months.
  - Medium = Annual.
  - Low = Every 5 years and an annual reconnaissance.
- Follow-up:
  - When corrective actions must be confirmed.
- Investigation inspections:
  - For suspected illicit discharges.
- Final inspections:
  - Prior to lease/RP termination.

Medium / High Risk Tenant Inspections coming up this Fall

Risk Ranking Categories

- Vessel Maintenance or Repair
- Vessel Fueling
- Vessel Rinsing
- Vehicle / Equipment Maintenance or Repair
- Vehicle / Equipment Fueling
- Vehicle / Equipment Washing
- Aboveground Oil Storage (≥ 55-gal)
- Container Storage (< 55-gal)
- Waste Handling and Disposal (excluding Used Oil)
- Spill History
- Enforcement History
- Training Attendance
- Site Condition and General Housekeeping
- Lease Agreements and/or Revocable Permit Requirements

Inspection Process

- Harbors inspector will contact tenant to schedule an inspection.
- Tenant representative should accompany inspector.
- Inspector will review conditions at the facility with a focus on areas exposed to stormwater runoff.
- Inspector will hold a conference, as needed:
  - Review applicable paperwork.
  - Share educational materials, where appropriate.
  - Verbally summarize findings.
- Written inspection report will generally be provided within 20 days.

Good Housekeeping BMPs

Keep wastes away from storm water.

Cover Dumpsters

- Use lids or tarps to keep storm water out of waste bins.

Do Not Overfill Dumpsters

- Ensure that bins are regularly emptied.

Good Housekeeping BMPs

Keep storm drains and waterways clean.

Pick up trash around the facility.

Clean debris from drain or waterway.

Regularly inspect, repair, replace, and/or reposition drain protection devices.

Stencil drains in your facility area.

Good Housekeeping BMPs

- Remove accumulated debris.
  - Sweep areas and pick up debris daily.
  - Use appropriate cleaning tools such as a broom or vacuum.

Washing Requirement

- Approval from Harbors is required for on-site washing.
  - Submittal should include:
    - What is being washed.
    - Pressure sprayer flow rate.
    - Vacuum rate.
    - Schematic of containment and drains.
    - Holding container capacity.
    - Waste disposal plan.
- No wash water shall enter the storm drain.
- Example: Will this set-up be sufficient to capture a 1 hour wash?
  - 4 GPM sprayer, 7 GPM vacuum, 300 gal tote.

Hand Washing BMPs

- Ensure that washwater from sinks is contained or discharged to the sanitary sewer.

Building Washing BMPs

- Primary option:
  - Use a wet rag or mop.
  - Dispose of wash water in the sanitary sewer.
- Harbors Division must approve any other building washing processes. Such BMPs could include:
  - Containment system.
  - Holding tank or system.
  - Dispose of wash water in sanitary sewer (with City and County of Honolulu approval).

Vehicle and Equipment Washing BMPs

- Use designated wash racks with an oil water separator or other treatment system.
  - Minimize the amount of water used.
  - Ensure that wash water is contained.
  - Use non-emulsifying and phosphate-free detergents.

Vehicle and Equipment Washing BMPs

- If wash rack not available:
  - Contain wash area.
    - Collect water used or allow to evaporate and clean area.

- If containment is not available:
  - Bucket and sponge (no water hose).
- Consider dry washing with chemicals.

Vessel Washing BMP

- Dry Dock Cleaning Filtration System

Maintenance and Repair BMPs

- Keep vessels, vehicles, and equipment in good condition.
  - Inspect for leaks.
  - Use drip pans where necessary.
    - Ensure drip pans are regularly emptied.

Maintenance and Repair BMPs

- Conduct maintenance in designated areas.
  - Indoors or covered area.
  - Away from storm drains.
- Transfer fluids to designated storage containers promptly.
  - Label and close all containers.
  - Store liquids within secondary containment.

Auto, Vessel, and Equipment Repair BMPs

- Conduct body repair operations in a covered / contained area.
- Conduct painting operations inside a paint booth.
- Ensure that leaks are contained until repairs are made.
- <u>Vacuum or sweep sanding debris</u>.
  - Consider using tools with filter bags.
  - Ensure paint chips and sanding debris do not enter harbor.

Painting BMPs

- Use tarps to contain paint drips.
- Mix and store paint within secondary containment.

- Clean painting equipment by:
  - Scraping off excess paint.
  - Wash in a contained area (bucket or sanitary sewer).
- Dispose of paints properly.

Fuel Transfer BMPs

- Inspect hoses and nozzles before use.
- Remain vigilant for releases during filling.
- Do not top off tank.
- Fill small equipment and containers within secondary containment.

- Respond to spills promptly.
  - Keep spill kit near the fueling area.
  - Test emergency shut-off for tanks.

SPCC Requirements

- SPCC Plan required when the aboveground storage <u>capacity</u> is greater than **1,320 gallons**.
  - For containers that are **<u>55-gallons and larger</u>**.
  - Per requirement of 40 CFR 112.
- Common containers include:
  - Aboveground Storage Tanks (ASTs).
  - Mobile fuel tankers.
  - Emergency generators.
  - Oil-filled operational equipment (OFOE).
    - Transformers.
    - Hydraulic systems.
  - Drums.

Material Storage BMPs

- Store materials indoors or under cover, if possible.
- Use secondary containment.
  - Double-walled tanks.
  - Flammable storage locker.
  - Spill pallet or contained area.

Material Storage BMPs

- Secondary containment must be sufficient to hold the largest container.
- Keep secondary containment clear of accumulated rain water or product.
  - Rain water only may be discharged from secondary containment provided that there are no contaminants (i.e. no sheen).
    - Designate a person to be responsible for discharging.
    - Keep release valve locked.
    - Record discharge in a log.

Material Storage BMPs

- An inventory of chemicals should be compiled with MSDS.
- Ensure container is in good condition:
  - No leaks, dents, corrosion, chemical discoloration.
- Ensure container is closed and properly marked.
- Clean spills properly.

Material Storage BMPs

- Outdoor material storage:
  - Place on a pallet and cover.
  - Ensure it is away from drainage ways and downspouts.
  - Rusting items should be covered or disposed.
  - Aggregate piles require containment / cover if not used that day.

Material Storage BMPs

- **<u>Pop Quiz: Which of these are stored properly?</u>**

Pesticide Usage

- Store sprayer in secondary containment.
- Follow manufacturer's instructions.
- Do not apply in high winds or prior to rain.
- Triple rinse containers prior to disposal.
  - Reuse the rinse water.

- **<u>Do not</u>** spray in or near water bodies without permit from DOH!

Solid Waste BMPs

- Make determination about type of waste.
  - Solid waste (40 CFR 262 & HAR 11-262).
  - Used oil (40 CFR 279 & HAR 11-279).
  - Hazardous waste (40 CFR 261 & HAR 11-261).
    - Universal waste (40 CFR 273 & HAR 11-273).
- Separate regulations apply to each type of waste. Ensure you are familiar with requirements.
- Retain disposal documentation.

Solid Waste BMPs

- Used oil:
  - Store within secondary containment.
  - Remove all other markings and label “used oil.”
  - Keep closed when not in use.
  - Store indoors or under cover.

Solid Waste BMPs

- Hazardous Wastes.
- Do not mix wastes.
- Store indoors or under cover.
  - Keep liquids in secondary containment.
  - Label properly.
- Properly dispose within designated timeframe.
- Maintain disposal manifest for three years.

Solid Waste BMPs

- Universal waste:
  - Examples batteries and fluorescent lamps.
- Store in structurally sound container.
- Label each container as “Universal Waste - Batteries” or “Universal Waste – Lamps” and accumulation start date.
- Recycle within 1 year.

Which Lamps Are Not UW?

Philip Alto
(green caps)

Fluorescent

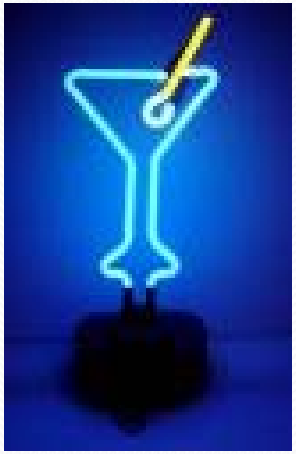
Incandescent Lamps

Mercury Vapor

Halogen Lamp

High Pressure Sodium

Metal Halide



Neon

High Intensity Discharge

KEEP FLUORESCENT TUBE BOXES; USE FOR SHIPPING TO RECYCLER.

Solid Waste BMPs

- Oil water separator:
  - Inspect at least semi-annually.
  - Remove accumulated grease and debris.
  - Maintain and inspection and maintenance log.

Needs Maintenance

Video Break!

- Spill Drill by New Pig
  - Provides a 7-step approach to help workers prepare for spills.

Spill Response Preparation

Ensure that there is a spill kit nearby!

- Items typically found in spill kits include:
  - Absorbent (Pads, Booms, Granular)
  - Broom
  - Plastic Shovel
  - Garbage Bags
  - PPE (Gloves, Safety Glasses)
  - SDS (formerly MSDS)
    - Keep nearby for reference.
  - Emergency Contact Info
    - Who is the emergency coordinator?

Spill Response Procedures

- How should you respond to this situation?

7 Steps of Spill Response

1. Assess the risk.
2. Select PPE.
3. Confine the spill.
4. Stop the source.
5. Evaluate the incident and implement cleanup.
6. Decontaminate the site and properly dispose of wastes.
7. Complete required report.

Spill Notifications

- Regulatory reportable quantity:

  (*Oil spill = ≥25 gallons, not cleaned within 72 hours, enters drainageway*)
  - Notify Harbors of spills.
    - 24/7: 808-587-2076 (Harbor Traffic Control Unit).
  - National Response Center
    - 800-424-8802.
  - Department of Health, HEER
    - 586-4249.
    - Written follow-up within 30 days.
  - Department of Health, CWB
    - 586-4309.
    - If enters surface water body.

Illicit Discharge Definition

- Illicit Discharge:
  - **Any non-storm water discharge that poses a risk to the environment.**

Illicit Discharge Examples

- Fuel spills.
- Leaking vehicles or equipment where a sheen is visible on the ground.
- Washwater from handwashing or vehicle washing activities that is not contained.
- Paint chips for sanding or grinding operations that is not contained.
- Materials stored improperly outdoors.
- Leaking trash bins.
- Sediment laden water from construction activities that is not contained.

STAIN VISIBLE NEAR STORM DRAIN

Lead Acid Battery Leaking – Improper Material Storage

Fine Material from sand Blast Machine Not Contained

Fiberglass and Other Debris on the Ground

SEDIMENT NOT CONTAINED ON CONSTRUCTION SITE

Leaking Drum / No Secondary Containment

Paint Chips in the Water

Vehicle Wash Water Not Contained

VEHICLE LEAK NOT CONTAINED

Signs of Illicit Discharge

- Activity-Based:
  - Identify facility areas exposed to storm water which are wet during dry periods or stained.
  - Inspect discharge points for:
    - Uncharacteristic volume.
    - Color.
    - Turbidity.
    - Odor.
    - Floatables.
    - Foam.

Signs of Illicit Discharge

- Overt Discharges:
  - Connections to the MS4.
  - Ensure that discharge pathways of all floor and facility drains is known.
    - Harbors is working with the Army Corps of Engineers to update MS4 drainage system maps.
  - Could be identified by Harbors inspectors during dry weather outfall screening.

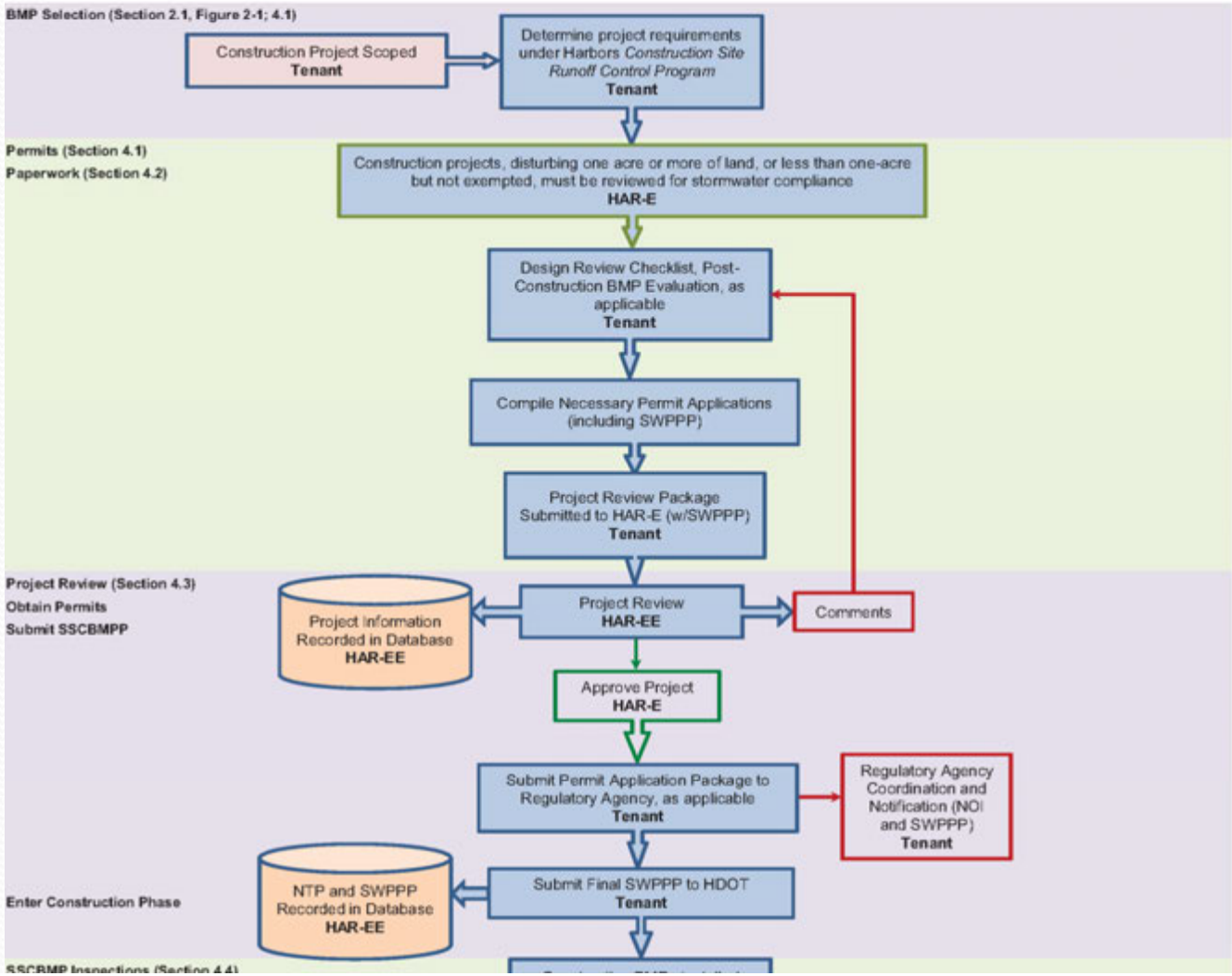
Is this an illicit discharge?

Illicit Discharge Actions

- We need your help to identify illicit discharges!
- If it is on your facility, stop the source and clean up pollutants.
- Make the proper notifications:
  - Call the Stormwater Reporting Hotline: 808-587-1962 (working hours only).
  - Call Harbor Traffic Control Unit: 808-587-2076 (24/7).

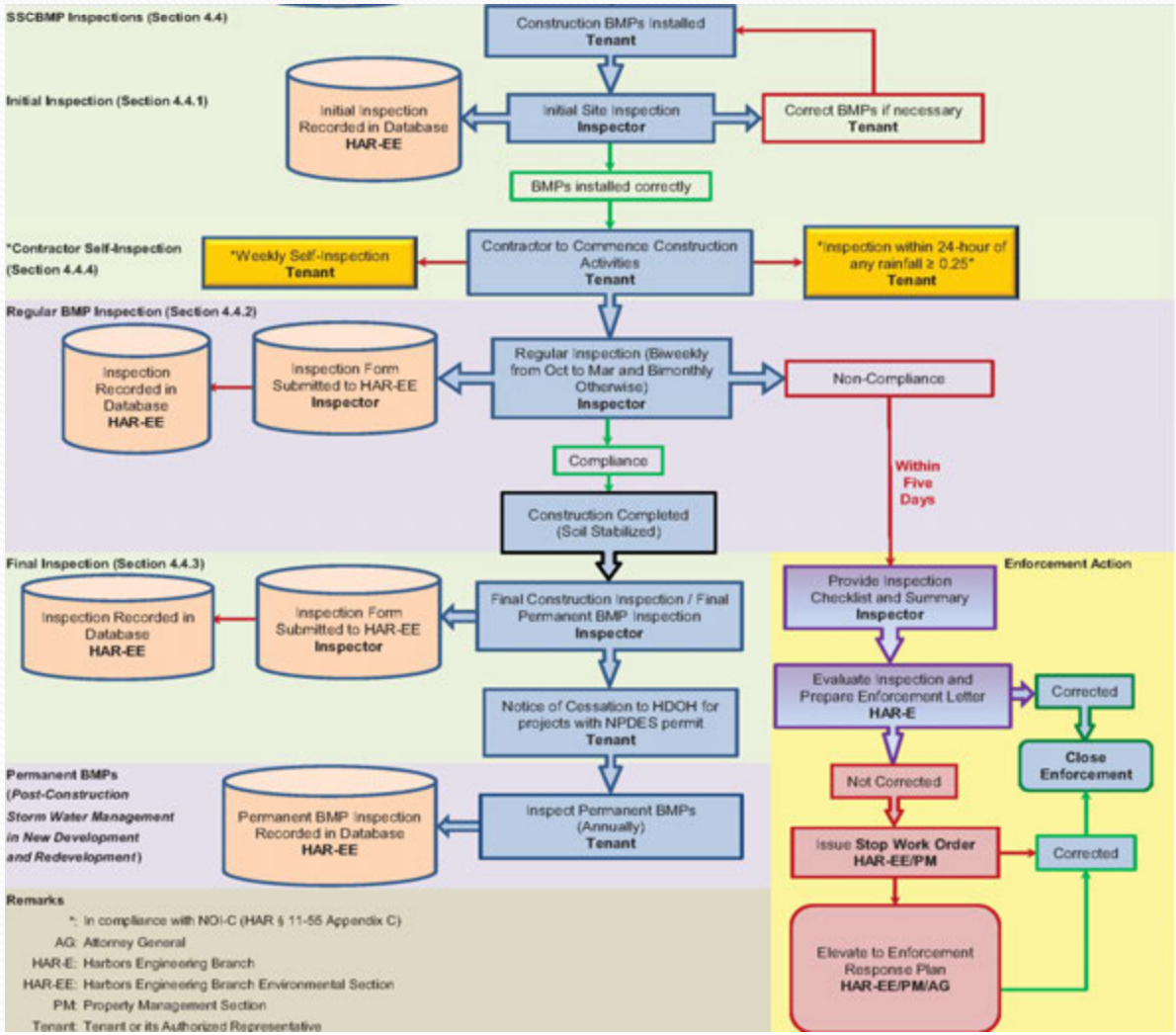
Construction Activities

- **<u>All projects must comply with the Harbors SWMP.</u>**



Construction Activities

- **<u>All projects must comply with the Harbors SWMP.</u>**



Construction Requirements

- Plan Review.
  - Submit forms, BMPs, construction plans, and permits to Harbors Division for review.
  - Post-Construction BMPs required for sites over 1 acre.
- Initial Inspection.
  - Temporary BMPs must be properly installed prior to start.
- Periodic Inspections.
  - Wet Season (October – March): Every two weeks.
  - Dry Season (April – September): Every two months.
- Final Inspection.
  - Site must be stabilized and permanent BMPs installed prior to removal of temporary BMPs.

- For more information on the construction program visit the Harbors website.

Temporary Construction BMPs

Permanent BMPs

- Implement for construction sites of 1 or more acres.
- Common types:
  - Add or conserve existing green space.
  - Green parking / permeable pavers.
  - Rain barrels.
  - Grassed swale.
  - Rain garden / vegetated filter strip.
  - Filtration products.

Permanent BMPs

Volunteer Opportunities

- International Coastal Clean-up Day.
- "Get the Drift and Bag It!"
  - September 20, 2014
  - Wikoliana Educational Excursions will be kicking off the "Adopt-A-Harbor program."
    - Remove debris and stencil drainageways.
  - If you would like to volunteer, please contact:
    - Captain Jeff Lansdown at 230-0940.

"Protect Our Ocean Water"
ADOPT A HARBOR
HAWAII

Conclusion

- Implement BMPs to:
  - Protect our Harbor waters and our ocean environment.
  - Comply with Harbors requirements.
  - Comply with regulatory requirements.
  - Avoid enforcement and fines.

Questions

- Harbors' Website: http://hidot.hawaii.gov/harbors/library/storm-water-management/.
- Harbor's Contacts:
  - Stormwater Reporting Hotline: 587-1962.
  - Randal Leong, PE: 587-1962, randal.leong@hawaii.gov.
  - Joy Zhang: 587-1960, ying.j.zhang@hawaii.gov.
  - Spencer Yim, PE, Spencer.K.Yim@hawaii.gov.
  - Jim Galariada, CSP: jim.st.galariada@hawaii.gov.

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- August 28, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	James Mainaoupo	Ron's Concrete Specialist, Ltd	jmainaaup0731@yahoo.com	808) 845-0467 Cell 561-0749	
2	CLARENCE CHANG	KAGAMI INC	CLARENCE@HAWAII.RR.COM	808.2303379	CC
3	RODNEY YEE	Pioneer Machinery Inc	Pioneer.mach@gmail	808 371-4897	Ry
4	Glenn Jinbo	ASIG / HFFC	glenn.jinbo@asig.com	808-630-0572	G.J.
5	PATRICK Colla	CLEAN ISLANDS	teswopj@yahoo.com	9519071508	PC
6	Jessie Galaviz	Petrospect, Inc	OPS@petrospect.Net	808.536.6631	
7	CHARLES HOWARD	MARITIME LICENSE CENTER	TRNG@MARITCTR.COM	808-589-0123	
8	Paul Karaffa	AES Hawaii / Kalaeloa venture	paul.karaffa@aes.com	808-682-3409	PK
9	Theresa Mcostri	Norman's Tractor Service	nts96819@hotmail.com	(808)118 03344	
10	BRIAN DANIEL	OCEANTRONICS INC.	BRIAN@OCEANTRONICS-NET	522 5600	bd
11	ED. AU	GLP ASPHALT	EAU@ASPHALTHAWAII.com	479-5070	
12	KIM LU	VAK FISHERIES LLC	KIMLU@VAKFISHERIES.com	843-2229	KL
13	HUNG HOANG	VAK FISHERIES LLC		843-2229	
14	DC CARTER	AMERICAN MARINE CORPORATION	DC@PENCO.ORG	792-1181	
15	ANDREW SOUZA	MCCABE HAMILTON & RENNY		479 0356	
16	Monte Kalama	MATSON NAV.	MKalama@MATSON.com	479-4651	
17	Shane Clarke	Aloha Tower Marketplace	sclarke@spplus.com	544-1457	
18	NATHAN LINGARD	HPU / ALOHA TOWER MARKETPL.	808lingard@gmail.com	799-6644	
19	John Hinely	Wind and Sea Charters	jhinely@hotmail.com	728-5646	JAH
20	Merry Jensen	The Phoenician	mjensen@thephoenician.com	7752305782	

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- August 28, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	DC CARTER	PACIFIC ENVIRONMENTAL CORPORATION	DC@PENCO.ORG	792-1181	DC
2	BERT BARBER	NANAKULI HOUSING/BASEYARD HAWAII		842-0770	BB
3	Raymond Rodrigues	VAK Fisheries LLC	Raymond@VAKFISHERIES.com	843-2229	RR
4	DONALD BILL	HAWAII MARITIME CENTER		3925730	DRB
5	RICHARD PRESTON	ALOHA CONTAINER		306-3748	RP
6	HERB NAHINU	Hawaii Pilots Assn		532-7233	HN
7	Chris Woolaway	Friends of FALLS OF CLYDE	chris@woolaway.com	753-3311	[illegible]
8	DANE WURLITZER	HAWAIIAN CEMENT	ON FILE	532 3407	[illegible]
9	Robert Steinke	Steinke Bros. INC		478-9777	[illegible]
10	STEVE HINTON	MARISCO, LTD.	shinton@marisco.net	306-5935	[illegible]
11	Nathan Kapule	Young Brothers Ltd	nkapule@hbyb.com	5439398	[illegible]
12	GAYLE SAITO	Unify Recovery LLC	sashimaru@aol.com	2567266	[illegible]
13	MIKE LESLIE	SAUSE BROS.	MIKEL@SAUSE	690-3012	[illegible]
14	DENTON CHING	US ARMY CORPS OF ENGRS		835-4315	DC
15					
16					
17					
18					
19					
20					

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- August 28, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	BRIAN DANIEL	OCEANTRONICS INC	BRIAN@OCEANTRONICS.NET	5225600	[illegible]
2	~~RODNEY TAMAMOTO~~	~~AALA Ship Svc~~	FRANCIS@OCEANTRONICS.NET	"	
3	RODNEY TAMAMOTO	AALA Ship Svc.	sales@aalaship.com	478-8732	[illegible]
4	KEKUA KELII	ATLANTIS SUBMARINES	kkelii@atlantisadventures.com	#386-0123	[illegible]
5	Andrew de Leon	BEI Hawaii			[illegible]
6	SoSaia Taumoefolau	Horizon lines	STaumoefolau@Horizonlines.com	282-9742	[illegible]
7	CHRISTINA HYON	JTB HAWAII INC.	CHYON@JTB-HAWAII.COM	808-397-5063	[illegible]
8	BRUCE McEWAN	FRIENDS OF FALLS OF CLYDE	bemacewan@gmail.com	265-1141	[illegible]
9	Kirk Tengan	Ameron Hawaii	Kirk.Tengan@ameronhawaii.com	832-9290	[illegible]
10	Dennis Hoang	Hi Sea Fishing	hiseafishing@hawaiiantel.net	521-6076	DH
11	Jay Dowsett	Friends of Hokulea Hawaii Loa		2561841	
12	Jon Satre	AML	JSatre@Lynden	206-436-9687	[illegible]
13	Steve Morita	P&R Water Taxi / Haw. Resource Group	smorita@pmtugs.com	388-4958	[illegible]
14	Glenn Toyama	Healy Tibbitts Builders Inc	gttoyama@healytibbitts.com	368-1581	[illegible]
15	CARL YOUNG	HAR - PM	carl.g.young@hawaii.gov	587-1945	[illegible]
16	PATTI MIYASHIRO	HAR - PM	PATTI.E.MIYASHIRO@hawaii.gov	587-1942	[illegible]
17					
18					
19					
20					

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- August 28, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	CHAD DIAZ	BEI HAWAII	CDIAZ@BEIHAWAII.COM	864-2615	CD
2	Monica Govey	BEI Hawaii	mgovey@BEIHawaii.com	535-6020	[illegible]
3	RUSTY NALL	American Marine Corp.	rusty.nall@amsghq.com	479-5195	[illegible]
4	Zachary Dixon	American Marine Corp	zak@amarinecorp.com	478 0086	ZD
5	Randy Grune	H. DOT Harbors	randy.grune@hawaii.gov	587.3651	RG
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- September 11, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	EMERSON CHANG	COMMERCIAL GLASS & METAL TRIMBLE FREE	~~Sup~~ superglass@me.com	343-8658	[illegible]
2	FRANK ROZNERSKI	HORIZON LINES - HAWAII STEVEDORES	FROZNERSKI@horizonlines.com	842-5389	[illegible]
3	PAUL FUKUNAGA	PF MARINE	P.F. MARINE @ AOL.COM	842-1330	P.F.
4	RONALD CHUN	HONOLULU Marathon	jchun@honolulumarathon.org	2552602	RAC
5	Jamie Feldhacker	Grace pacific	jfeldhacker@gracepacific.com	348-4895	[illegible]
6	JEFF LATHROP	PACIFIC SHIPYARDS INT'L	JLATHROP@PACIFICSHIPYARDS.com	462-8662	[illegible]
7	Phillip Castilliano	Pacific Shipyards INTL	PCastilliano@Pacificshipyards.com	436-5021	PC
8	FRANK WHITE	Container Storage	frank@FDWhite.com	841-5555	[illegible]
9	Kerry Atkins	McCabe, Hamilton & Renny	KAtkins@mhrshophawaii.com	224-8611	KA
10	Keahi Birch	Matson	kbirch@matson.com	848-1252	KB
11	Rick Taniguchi	Honolulu Marathon	rtaniguchi@honolulumarathon.org	347-3045	[illegible]
12	Byron Fonseca	ERIK Builders	byronFonseca@hawaiiantel.net	371-8869	[illegible]
13	Michael Barnall	AMERICAN MARINE Corp		286 4987	[illegible]
14	DAVID GRIFFITH	AMERICAN MARINE CORP	dwgriffith@amarinecorp.com	792-1162	[illegible]
15	Jim Gomes	HAWAIIAN Cement	jim.gomes@hawaiiancement.com	284-7986	[illegible]
16	NELSON ABERILLA	UNITED FISHING AGENCY	Nelson.Aberilla@UNITEDFISHINGAGENCY.com	536-2148	NA
17	Enriqueta Tanaka	Matson	etanaka@matson.com	848-1241	[illegible]
18	RANDALL LAU	FOSS/YOUNG BROTHERS	rlau@htbyb.com	753-7340	[illegible]
19					
20					

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- September 11, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	James Pontin Jr.	Kirby Offshore Marine	James.PontinJR@kirbycorp.com	208-1089	JP
2	NEPHI DHAI	OCEANIC LIBRA CORP	NEPHI@HAWAIIANTEL.NET	690-4030	[illegible]
3	DEREK HIGA	FRESH ISLAND FISH	DEREK@FRESHISLAND FISH	479-0607	DH
4	Kem Nishioka	Attorney General	Kem.K.nishioka@hawaii.gov	478-2112	[illegible]
5	Trevor Kubo	Pasha Hawaii	trevor_kubo@pashanet.com	294-3765	[illegible]
6	GORDON Fowler	P+R Water Taxi Pier 36 Hawaii Resource Group	gfowler@HawaiiRg.com	753-7592	GRF
7	SIDNEY GOO	Aloha Ag Consultants	sidgoo@msn.com	225-3507	[illegible]
8	KEOLA GOO	JAS. W. GLOVER, LTD.	KEOLAG@GLOVERLTD.COM	591-8977	SKG
9	Floyd Otani	United Fishing Agency	f.Otani@unitedfishingagency.com	536-2148	[illegible]
10	TY PRYNE	H.B.N	TYPRYNE@GMAK.COM	735-7678	[illegible]
11	Fred Rackle	Roberts Hawaii	Fred.Rackle@RobertsHawaii	753 7727	[illegible]
12	Joanne Valiria	Inchcape Shipping	Joanne.valiria@issshipping.com	521-2111	J.V.
13	TIM BYAM	GrainCraft (Pendleton Flour Mills)	tbyam@pfmills.com	368-1868	[illegible]
14	NEIL KONEKOTO	POP FISHING & MARINE/NICO'S	neil@pop-hawaii.com	478-9003	[illegible]
15	Jeff Lansdown	Wikoliang	wikoliang@gmail.com	230 0940	[illegible]
16	Zre Williams	HAWAII GAS	ZWILLIAMS@HAWAIIGAS.COM	594-5637	[illegible]
17	ERIC LEONG	HAR-PM	eric_leong@hawaii.gov	587-1943	EL
18					
19					
20					

HDOT Harbors Annual Tenants Stormwater Awareness Training Sign-in Sheet

- September 11, 2014

No.	Name	Company	E-mail Address	Phone #	Initials
1	Leslie Ryan	Sea Engineering	LRyan@seaengineering.com	536.3603	[illegible]
2	Ferdie Jose	U.S. Customs and Border Protection	ferdinand.a.jose@cbp.dhs.gov	366-3795	FJ
3	Gordon Furtado	DHX	gordon.furtado@dhx.com	590-3186	GKF
4	Joe F. Vele	Dependable Hawaii Express	Joe.Vele@dhx.com	364-5811	J.V.
5	NORMAN CHEU	NORKO MARINE	ncheu@norkomarine.com	536-4568	[illegible]
6	YASUHIRO KINUHATA	"	"	"	[illegible]
7	DAVE THOMPSON	MATSON	dwthompson@matson.com	478-9872	[illegible]
8	MATT BUCKMAN	Hawn Cat	buckmansboatyard@yahoo.com	3066012	[illegible]
9	Marshall Joy	Hawaiian Ice Co	marshall@hawnice.com	5386918	[illegible]
10	Daniel Otan	United Fishing Agency	dtyo27@gmail.com	536-2148	[illegible]
11	RONALD HAGER	HSI	RHAGER AT HORIZON LINES.COM	3067446	[illegible]
12	William Hannah	Wikoliana	W-E-Hannah@yahoo.com	615-429-2736	WEH
13					
14					
15					
16					
17					
18					
19					
20					

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 3 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Basics of containment

3. What were the weak points of the training course that we should improve upon next year? Organization of regs is less important.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Paul Karafta ; Date 8/28/14
Company: AES Hawaii

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?

3. What were the weak points of the training course that we should improve upon next year? NONE

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: BRIAN DANIEL ; Date AUG 28, 2014

Company: OCEANTRONICS INC

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? Presentation was well thought out.

3. What were the weak points of the training course that we should improve upon next year? None

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 3. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Patrick Keller ; Date Aug 28 2014
Company: Clean Islands

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? Thorough & complete

3. What were the weak points of the training course that we should improve upon next year? none

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Dennis Hong ; Date 8/28/2014
Company: Hi-Sea Fishing Supply

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
   EXAMPLES USING PHOTOS, VIDEO
   MUFFINS

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. _____. Please provide additional comments to elaborate on your ranking & how we can improve next year.
   SEATS ARE HARD. USE THE TABLES

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: _____; Date _____
Company: _____

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
   VIDEO WAS GOOD
   POWER POINT WELL MADE

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: CHARLES R. HOWARD ; Date 8/28/14

Company: MARITIME LICENSE CENTER

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. _____ Additional comments on the overall training course:

   5

2. What were the strong points of the training course that we should keep & improve upon for next year?

   Spill Drill

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. _____ Provide additional comments if you like.

   4

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. _____. Please provide additional comments to elaborate on your ranking & how we can improve next year.

   5

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Jay Dowsett; Date _____

Company: Friends of Hawkea & Hawaiiloa

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
good interaction & speaking

3. What were the weak points of the training course that we should improve upon next year? None

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.
Very knowledgable.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: SHANE CLARKE ; Date 8/26/14
Company: ALOHA TOWER MARKETPLACE

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
   great SPEAKER

3. What were the weak points of the training course that we should improve upon next year? N/A

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: NATHAN LINGARD ; Date 8.28.14
Company: ATM

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course: Very informative

2. What were the strong points of the training course that we should keep & improve upon for next year? All areas coverd.

3. What were the weak points of the training course that we should improve upon next year? no week points,

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like. Well presented

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year. Great training very informative

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: James Mainaan Jr ; Date 8-28-14

Company: Ron's Concrete Sprinkler, Ltd.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? Slide Presentation & Content.

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year. Parking Needs to Better Organized.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Glenn Jinto ; Date 8.28.14

Company: ASIG

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
LOTS OF INFORMATION & PICTURE EXAMPLES

3. What were the weak points of the training course that we should improve upon next year? NONE

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: MIKE LESLIE ; Date 8/28/19
Company: SAUSE BROS.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 3 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Hazardous Materials

3. What were the weak points of the training course that we should improve upon next year? Training courses other than just visiting website

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Jessie Galaviz ; Date 8/28/14
Company: Petrospect, Inc.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. _____ Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? Run off

3. What were the weak points of the training course that we should improve upon next year? None

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. _____ Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. _____. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Robert Steinke ; Date 7/28/14

Company: Steinke Bros Inc

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Visual examples of the potential environmental pollutants

3. What were the weak points of the training course that we should improve upon next year? —

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Kirk Tengan ; Date 8/28/14
Company: Ameron Hawaii

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
educational reports on do + don'ts of storm drain awareness

3. What were the weak points of the training course that we should improve upon next year? none

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Rodney Tomanio; Date 8-28-14
Company: Aala Ship Svc.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Spill Drill Video

3. What were the weak points of the training course that we should improve upon next year? Kinda long

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Jon Satre ; Date 8-28-14
Company: AML

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. _____ Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?

3. What were the weak points of the training course that we should improve upon next year? Ø

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. _____ Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. _____. Please provide additional comments to elaborate on your ranking & how we can improve next year.

   Good

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Monte Kalama ; Date 8/28/14

Company: WATSON

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
   CONTINUE SAME

3. What were the weak points of the training course that we should improve upon next year? NONE

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Bert Barber ; Date 8/28/14
Company: Nanakuli Housing/Barnyard Hawaii

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

   _____

   _____

   _____

2. What were the strong points of the training course that we should keep & improve upon for next year?

   _____

   _____

   _____

3. What were the weak points of the training course that we should improve upon next year? _____

   _____

   _____

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

   _____

   _____

   _____

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

   _____

   _____

   _____

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: _____; Date _____

Company: _____

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
EXPLAINING POLICIES & VISUAL EXAMPLES

3. What were the weak points of the training course that we should improve upon next year? MULTIPLE SPEAKERS HELPS MAINTAIN INTEREST

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: DC CARTER ; Date 28 AUG 2014
Company: PACIFIC ENVIRONMENTAL CORPORATION

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?

3. What were the weak points of the training course that we should improve upon next year? Audio. Echo in room drowns speaker sometimes

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Glenn Tigma ; Date 8/28/14
Company: LLTAI

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? ~~[illegible]~~ video

3. What were the weak points of the training course that we should improve upon next year? Need more involvement from crowd, gets boring hearing someone talk.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 3 Provide additional comments if you like.
video was good

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
Better directions, people followed the piers 18-20 sign.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Sosaia Taumafolau ; Date 8/28/14
Company: HSI

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 3 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
EXAMPLES (PHOTOS)

3. What were the weak points of the training course that we should improve upon next year? REGULATION NOT PERTAING TO STORM WATER

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 3 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: CLARENCE CHONG ; Date 8/28/14
Company: KAGAMI INC.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
The steps on good bmp's.

3. What were the weak points of the training course that we should improve upon next year? To much emphasis on illicit, few times & we got the message.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
Do video or slide with less talking. More visual gets the point across effectively.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Theresa Alasba ; Date 8-28-14
Company: Normans Tractor Service

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   5 - great presentation very informative.

2. What were the strong points of the training course that we should keep & improve upon for next year? Great examples + pictures. more information regarding chemical storage + not just oil product storage.

3. What were the weak points of the training course that we should improve upon next year? Healthier snacks
   Nothing about the presentation itself.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.
   Harbors should create a video w/ local examples

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. ~~5~~ 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.
   Nice facility, seats a bit uncomfortable + limited parking

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Monica Gorey ; Date 8/28/14
Company: BEI Hawaii

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Examples of BMPs (New Products / Ideas).

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.
Screen hard to see fm. back row.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: PJR Water Taxi / Hmn. Resource Grp.; Date 8/28/14
Company: Steve Morita

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   LEARNED SOME NEW STUFF

2. What were the strong points of the training course that we should keep & improve upon for next year?
   SPILL MANAGEMENT

3. What were the weak points of the training course that we should improve upon next year? DIDN'T NEED THE BIG FACTORY INFO

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
   NICE PLACE FOR A MEETING
   THE SOUND WAS GOOD

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: RICHARD PRESTON ; Date 8/28/14
Company: AGGA CONTAINER

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Learned More Products, Liquids covered under HAZ MAT

3. What were the weak points of the training course that we should improve upon next year? NONE

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
Keep us Informed of new Regs

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Andrew Souza ; Date 8-28-14

Company: McCabe Hamilton & Renny

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:
   Nice to see practical solutions to common problems.

2. What were the strong points of the training course that we should keep & improve upon for next year?
   Photos of real world examples are really helpful

3. What were the weak points of the training course that we should improve upon next year? ~~Maybe too~~ The hazmat video seemed excessive.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: John Hinely ; Date 8/28/14

Company: Wind and Sea Charters

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   VERY INFORMATIVE. POSSIBLY HAVING THE TRAINING TWICE A YEAR, ~~AT TIMES~~..

2. What were the strong points of the training course that we should keep & improve upon for next year?
   ANY CHANGES IN RULES/REGS

3. What were the weak points of the training course that we should improve upon next year? N/A

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.
   TO MUCH LIGHT, DIFFICULT TO SEE

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: CHAD DIAS ; Date 8/28/14
Company: BIG HAWAII

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? Good Slide Show

3. What were the weak points of the training course that we should improve upon next year? Have copies of the permit available

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Rusty Nall ; Date Aug. 25, 2014

Company: American Marine Corporation

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   Good ideas for us to work on to Improve our facility

2. What were the strong points of the training course that we should keep & improve upon for next year?
   What equipment to cover. How to protect drains

3. What were the weak points of the training course that we should improve upon next year? the spill video was too intense. Find training on certain spills that dont require SCBA

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Zachary Dixon ; Date 8/28/14
Company: American Marine Corp

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Improve Prevention

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: EDUARDO [illegible]; Date 8-20-14
Company: CLP Asphalt

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   Great intro for a 'newby'. Thorough, easy to follow + brief :)

2. What were the strong points of the training course that we should keep & improve upon for next year?
   Explaining containment + cleaning of and definition of illicit discharges.

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.
   Could spend a bit more time emphasizing; felt a bit down-played/quickly run-through.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Merry Jenson ; Date 8-28-14
Company: The Honolulian

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   A lot of practical information.

2. What were the strong points of the training course that we should keep & improve upon for next year?
   Options on BMPs

3. What were the weak points of the training course that we should improve upon next year? None

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.
   Limited parking lot.
   Chairs not very comfortable

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Bruce McEwan ; Date 8-28-14
Company: Friends of Falls of Clyde

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Good waste information, The information about plastics in the ocean can be updated

3. What were the weak points of the training course that we should improve upon next year? none

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.
Parking ~~is~~ can be a problem - otherwise a great facility

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Chris Woolaway ; Date 08/28/2014
Company: Friends of FALLS of CLYDE

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
   CONTENT INVOLVING ILLICIT DISCHARGE I.D. AND REPORTING.

3. What were the weak points of the training course that we should improve upon next year? MAYBE A LITTLE TO MUCH EMPHASIS ON SPILL RESPONSE. ALSO MAYBE INCORPORATE VOLUNTEER ACTIONS IN TENANT RECOGNITION SCORING.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: STEVE HINTON; Date 8/28/14
Company: MARISCO, LTD.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year? BMP

3. What were the weak points of the training course that we should improve upon next year? NONE / all good

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Very Well done

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: HERB Nahinu ; Date 8/28/14
Company: Hawaii Pilots Assn

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
CLEAR INFORMATION. VIDEO MEDIA WAS HELPFUL. PHOTO EXAMPLES A PLUS.

3. What were the weak points of the training course that we should improve upon next year? PHOTOS WERE SMALL. TOO MANY PHOTOS ON ONE POWERPOINT PRESENTATION WAS VISUALLY OVERWHELMING.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
15 MIN BREAK?

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: CHRISTINA HYON ; Date 8/28/14
Company: JTB HAWAII, INC.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Double containment system
Pile management.
Contacts. Drip pans.

3. What were the weak points of the training course that we should improve upon next year?
Audience engagement.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 4 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: VAK Fisheries LLC ; Date 8/28/14
Company: Raymond Rodriguez

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
SPILL KIT, DRIFT PAN, GOOD AND CLEAR WHEN SPILL ENGAGEMENT.

3. What were the weak points of the training course that we should improve upon next year? NO WEAK POINT

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
NO COMMENTS

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: KIM LU ; Date 8/28/14
Company: VAK FISHERIES LLC

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Risk Assesment.
spill containment
Contacts

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: HUNG HOANG ; Date 06, 28.2014
Company: VAK

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   1ST HALF WAS A REVIEW. 2ND HALF WAS A NEW TRAINING. LIKED THE VIDEO GREAT TRAINING TO EDUCATE EMPLOYEES.
2. What were the strong points of the training course that we should keep & improve upon for next year?
   STRESS EVERYDAY B.M.P.'S
3. What were the weak points of the training course that we should improve upon next year?
4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.
   TRAINING WAS PURE & SIMPLE.
5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: VEYNA VELLI ; Date 28 AUG 14
Company: ATLANTIS SUBMARINES HAWAII

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course

Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 3 Additional comments on the overall training course: too long

2. What were the strong points of the training course that we should keep & improve upon for next year?

3. What were the weak points of the training course that we should improve upon next year?

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 3 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 3. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Rodney Yee ; Date 8/28/14

Company: Pioneer Machinery Inc.

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. _____ Additional comments on the overall training course: 5

2. What were the strong points of the training course that we should keep & improve upon for next year?
ALL THE ABOVE

3. What were the weak points of the training course that we should improve upon next year? HAVE ONHAND PILLKAX

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. _____ Provide additional comments if you like.
VERY EFFECTIVE

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. _____. Please provide additional comments to elaborate on your ranking & how we can improve next year.
VERY GOOD OVERALL

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: DONALD BELL ; Date 8-28
Company: HAWAII MARITIME CENTER

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
Storm drain - oil repention into clean water

3. What were the weak points of the training course that we should improve upon next year? very good - as is.

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Gayle Saito ; Date 8/28
Company: Unify Recovery LLC

8/28/2014

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 5 Additional comments on the overall training course:
   (1) Spill ~~Driv~~ Drill Video was a little too advanced for me - we are not Responders
   (2) But was a good Video
2. What were the strong points of the training course that we should keep & improve upon for next year?
   Provide examples of violations thruout State of HI
   @ this level
   continue #2
3. What were the weak points of the training course that we should improve upon next year? Over all very informative with new information
4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 5 Provide additional comments if you like.
   Lots of information on each Slide - Would like at access and edit
   would like to edit ppt and show company employees
5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 5. Please provide additional comments to elaborate on your ranking & how we can improve next year.
   Facility arrangement was adequate
   Over all very good

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: Nathan Kapule ; Date Aug 28 2014
Company: Young Brothers

TRAINING EVALUATION & FEEDBACK FORM

Annual H-DOT Harbors Tenant Storm Water Training Course
Honolulu Harbor Pier 19 Terminal

1. Was the training course beneficial to you as a Tenant of the Honolulu and Kalaeloa Barbers Point Harbors? Please rank the overall course from 0 to 5 where 5 = Most Beneficial & 0 = Not Beneficial At All. 4 Additional comments on the overall training course:

2. What were the strong points of the training course that we should keep & improve upon for next year?
SHOW HARBOR STORM DRAIN INFRASTRUCTURE

3. What were the weak points of the training course that we should improve upon next year? SHOW EXAMPLE OF OIL SPILL CLEAN-UP AND ACCEPTABLE RESIDUAL

4. How effective were the Trainer, the Power Point slides & the video in conveying the Harbors Storm Water Management Program information & requirements to the tenant audience? Please rank their overall effectiveness form 0 to 5 where 5 = Most Effective & 0 = Not Effective At All. 3 Provide additional comments if you like.

5. Please provide an overall ranking of the Pier 19 Terminal facility used for this training course in terms of conditions conducive to the tenant audience such as comfort (air conditioning & lighting), hearing (audio), refreshments, restrooms & parking. Ranking scale from 0 to 5 where 5 = Very Good overall comfort and convenience & 0 = Extremely poor overall comfort and convenience. 4. Please provide additional comments to elaborate on your ranking & how we can improve next year.

Mahalo for providing us with your training feedback. See you next year! *Mālama I Ke Kai!*

Name: DANE WHITTEN ; Date 8/28/14
Company: HAWAIIAN CEMENT

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
	8/28/2014	Aala Produce, Inc.	Aala Ship Service	Rodney Tamamoto	4		Educating tenants on the dos & don'ts of storm drain awareness	None	5		4	
	8/28/2014	AES Kalaeloa Venture, LLC	AES Corporation	Paul Karafta	3		Basics of containment	Organization of regs is less important	4		4	
		Aloha Agricultural Consultants, Inc.	Niu Nursery									
		Aloha Cargo Agency Services, Inc.	Aloha Cargo Transport, Inc., ACT, Northland									
	8/28/2014	Aloha Container Sales & Rental, Inc.	ACSR	Richard Preston	5	Learned some new stuff.	Spill Management	Didn't need the big factory info.	5		5	Nice place for a meeting. The sound was good.
	8/28/2014	Aloha Tower Marketplace	AHI Aloha Associates, LLC; PM Realty Group, Aloha Tower Development Corporation (ATDC)	Shane Clarke	5		Good interaction & speaking	None	5	Very knowledgeable	5	
	8/28/2014	Aloha Tower Marketplace		Nathan Lingard	5		Great speaker	N/A	4		5	
		American Guard Services, Inc.										
	8/28/2014	American Marine Corporation	American Workboats, Inc.	Rusty Nall	5		Good slide show	Have copies of the permit available.	5		5	
	8/28/2014	American Marine Corporation	American Workboats, Inc.	Zachary Dixon	5	Good ideas for us to work on to improve our facility.	What equipment to cover. Have to protect drains.	The spill videio was too intense. Find training on common spills that don't require SCBA,	4		5	
	8/28/2014	Ameron International Corporation	Ameron Hawaii	Kirk Tengan	4		Visual examples of the potential environmental pollutants		5		5	
	8/28/2014	Atlantis Submarines Hawaii, LLC	Atlantis Cruises and Atlantis Submarines	Kekua Kelii	5	1st half was a review. 2nd half was new training. Liked the video - Great training to educate employees	Stress everyday BMPs		5	Training was pure & simple	5	
	8/28/2014	BEI Hawaii		Chad Dias	5	Very informative. Possibly having the training twice a year.	Any changes in rules/regs.	N/A	5	Too much light, difficult to see.	5	
	8/28/2014	BEI Hawaii		Monica Govey	5	great presentation, very informative	Great example & pictures. More information regarding chemical storage & not jus oil product storage	Healthier snacks. Nothing about the presentation itself.	5	Harbors should create a video with local examples.	4	Nice facility, seats a bit uncomfortable & limited parking
		Brookins Boatworks, Ltd.										
		Central Pacific Distributing, Inc.										

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
		City and County of Honolulu, Department of Design & Construction										
		City & County of Honolulu, Honolulu Fire Department										
		City & County of Honolulu, Honolulu Police Department, Juvenile Services, P.A.L.										
	8/28/2014	Clean Islands Council		Patrick Geller	4		Presentation was well thought out	None	4		5	
		Concrete Coring Company of Hawaii, Inc.	Keehi Facility KMR Facility									
		Dedrick, Dewain A.	Bella Pietra									
		Dependable Hawaiian Express, Inc.	DHX, Inc.									
		Erik Builders, Inc.										
		Frank P. White Jr. Properties	Container Storage Co.									
		Fresh Island Fish, LLC										
	8/28/2014	Friends of Falls of Clyde		Bruce McEwan	5	A lot of practical information	Emphasis on BMPs	None	5		4	Limited parking lot. Chairs not very comfortable.
	8/28/2014	Friends of Falls of Clyde		Chris Woolaway	5		Good basic information. The information about plastics in the ocean can be updated.	None	4		4	Parking can be a problem - otherwise a great facility.
	8/2820/14	Friends of Hokule'a & Hawai'iloa		Jay Dowsett	5		Spill Drill	(Blank)	4		5	
		Fukunaga, Paul N.	P.F. Marine									
		Gillis, Eugene	Excavation Services									
	8/28/2014	GLP Asphalt, LLC	Asphalt Hawaii	Edward Au	5		Improve prevention.		5		5	
	8/28/2014	Hawaii Maritime Center	Donald Bell	Donald Bell	5		All the above	Have on hand "Pillkat" (illegible - spill kit?)	5	Very effective	5	Very good overall
	Moved out in 2013	Hawaii Painting & Wallcovering, Inc.										
	8/28/2014	Hawaii Stevedores, Inc.		Sosaia Taumoefolava	5		Video	Need more involvement from crowd, gets boring hearing someone talk	3	Video was good.	5	Better directions. People followed the Piers 18-20 sign.
		Hawaiian Aqua Products, Inc.	Foo W. Lim & Sons, Inc.									
	8/28/2014	Hawaiian Cement		Dane Wurlitzer	4		Show Harbor storm drain infrastructure	Show example of oil spill clean up and acceptable residual.	3		4	

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
	8/28/2014	Healy Tibbitts Builders, Inc.		Glenn Toyama	5			Audio - echo in room drowns out speaker sometimes.	5		5	
	8/28/2014	Heumann, James	Wind & Sea Charters	John Hinely	4	Nice to see practical solutions to common problems.	Photos of real world examples are really helpful.	The hazmat video seemed excessive.	4		5	
		Honolulu Marathon Association										
	8/28/2014	Horizon Lines, LLC		Sosaia Taumoefolava	5		Video	Need more involvement from crowd, gets boring hearing someone talk	3	Video was good.	5	Better directions. People followed the Piers 18-20 sign.
	8/28/2014	HPBS, Inc.	Hawaii Pilots Assn.	Herb Nahinu	5		BMP.	None/all good	5		5	Very well done
	8/28/2014	Ishikawa, Norman & Dolores	Norman's Tractor Service	Theresa Alcosiba	5		The steps on good bmp's	Too much emphasis on illicit, few times & we got the message	5		5	Do video or slide with less talking. More visual gets the point across effectively.
		Island Beach Activities										
		Island Movers, Inc.	Hawktree International									
		ISS Marine Services, Inc.	Inchcape Shipping									
		Jas W. Glover, Ltd.										
		Jems Enterprises, LLC	Hawaiian Ice Company									
		JFC International	Japan Food (Hawaii), Inc.; Davenport Hawaii Partners, LP									
	8/28/2014	Kagami, Inc.		Clarence Chong	3		Examples (photos)	Regulation not pertaining to storm water.	3		5	
		Kirkwood, Clarke	Hawaiian Catamaran Multihull Design									
		Kirby Offshore Marine	(Formerly Uaukewai Diving, Salvage & Fishing, Inc.) Formerly known as K-Sea Transportation Hawaii Division									
		Lansdown, Ian J.	Hawaii's Sailing Center; Ian J. Lansdown									
	8/28/2014	Marisco, Ltd.		Steve Hinton	5		Content involving illicit discharge I.D. and reporting	Maybe a little too much emphasis on spill response. Also, maybe incorporate volunteer actions in tenant recognition scoring.	5		5	

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
8/28/2014		Marisco, Ltd.	The Phonecian	Merry Jensen	5	Great intro for a 'newby'. Thorough, easy to follow & brief.	Explaining containment & cleanup of the definition of illicit discharges		4	Could spend a bit more time emphasizing; felt a bit down-played/quickly ran-through.	5	
	8/28/2014	Maritime License Center, Inc.	Both Harbors	Charles Howard	4		Video was goodl Power point well made.	(Blank)	4		5	
	8/28/2014	Matson Navigation Company, Inc.	Matson Terminals, Inc.	Monte Kalama	4			None	5		4	
	8/28/2014	McCabe, Hamilton & Renny	Pier 1-Kalaeloa: 0930 - 1030 Pier 29 and 23: 1030-1130	Andrew Souza	5		Learned more products, liquids covered under HAZMAT	None	5		5	Kept us informed of new regs.
		Moana Pa'a Kai, Inc.	Subsiduary of Young Brothers									
	8/28/2014	Nanakuli Neighborhood Housing Services, Inc.	Nanakuli Housing Corporation Baseyard Hawaii	Bert Barber	5		Continue same	None	5		5	
		Norko Marine Agency, Inc.										
	8/28/2014	Oceantronics, Inc.		Brian Daniel	5			None	5		5	
		Ohai, Leo A.	Oceanic Libra Corporation									
	8/28/2014	P&R Water Taxi, Ltd.		Steve Morita	4		Examples of BMPs (New Products/Ideas)		4		4	Screen hard to see from back row.
	8/28/2014	Pacific Environmental Corporation		DC Carter	4		Explaining policies & visual examples	Multiple speakers helps maintain interest.	4		5	
	In the process of moving out	Pacific Fishing and Supply, Inc.	Petro Pacific									
		Pacific Ocean Producers, Inc.	(Nico's) POP Fishing & Marine, LLC									
		Pacific Shipyards International, LLC	Pacific Marine and Supply, Navatek, Unitek Contracting Group, Honolulu Shipyard									
		Pang, Sandra	SP Lunch Wagon; Sandy's Lunchwagon									
		Pendeton Flour Mills, LLC	Hawaiian Flour Mills; HFM Food Service; Kerr Pacific Corp									
	8/28/2014	Petrospect, Inc.		Jessie Galaviz	3		Hazardous materials	Training courses other than just visiting website.	4		4	
	8/28/2014	Pioneer Machinery, Inc.		Rodney Yee	3	too long			3		3	
		Pryne, Ty	H.B.N. Yacht Rigging									

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
		Rebecca's Fine Collections, Inc.	R.F.C. Group									
	8/28/2014	R & C Concrete Specialists, Inc.	Ron's Concrete Specialist, Ltd.	James Mainaaupo	5	Very informative	All areas covered.	No weak points.	5	Well presented.	5	Great training . . . (rest illegible)
		Unify Recovery Service	Occupying former Kokua Recycle Space									
		Sause Bros., Inc.	Pier 5 at Kalaeloa Harbor									
	8/28/2014	Sause Bros., Inc.	Pier 27 at Honolulu Harbor	Mike Leslie	5		Lots of information & picture examples	None	5		5	
		Sea Engineering, Inc.										
		Siu, Wai Lun	Pier 21 Lunchroom									
		State of Hawaii Department of the Attorney General/Criminal Justice	Attorney General-Asset Forfeiture									
	8/28/2014	Steinke Brothers, Inc.		Robert Steinke	5		Run off	None	5		5	
		Submarines Hawaii, L.P.	(Subsidary of Robert's Hawaii)									
		The Gas Company, LLC										
		The Pasha Group	Pasha Hawaii									
		The Webe Corporation, Ltd.	Ali'I Kai Catamaran (Subsidiary of Robert's Hawaii)									
	8/28/2014	Travel Plaza Transportation LLC	JTB Hawaii, Inc.	Christina Hyon	4		Clear information. Video media was helpful. Photo examples a plus.	Photos were small. Too many photos on one powerpoint presentation was visually overwhelming.	4		5	15 min break?
		Trouble Free Corp.										
		U.S. Bureau of Customs and Border Protection, Department of Homeland Security										
	8/28/2014	Unify Recovery LLC		Gayle Saito	5		Storm drain - oil prevention (?) into clean water	Very good - as is	5		5	
		United Fishing Agency, Ltd.										
	8/28/2014	VAK Fisheries LLC		Kim Lu	5		Spill kit, drip pan, good and clear when spill engagement	No weak point	5		5	No comments
	8/28/2014	VAK Fisheries LLC		Hung Hoang	5		Risk assessment. Spill containment. Contacts.		5		5	

Low risk tenant.
Medium tenant inspected from February to May 2013
High risk tenant

Training Evaluation & Feedback Form Responses

Index	Training Date	Tenant Business Name	DBA or Other Name	**Training Attendee/ Respondent**	Item 1: Overall Ranking	Item 1: Comments	Item 2: Strong Points	Item 3: Weak Points	Item 4: Training Effectiveness Ranking	Item 4: Comments	Item 5: Facility Ranking	Item 5: Comments
	8/28/2014	VAK Fisheries LLC		Raymond Rodrigues	5		Double containment system. Risk management. Contacts. Drip pans.	Audience engagement.	4		5	
	8/28/2014	Van, Kevin	Hi-Sea Hawaii Fishing Supply	Dennis Hoang	5		Thorough & complete	None	5		5	
		Welch, Jr., Darrell, G., AIA	Aloha Tower, 4th Floor									
		Wikoliana Educational Excursions, LLC										
	8/28/2014	Young Brothers, Ltd.		Nathan Kapule	5	Spill Drill video was a little too advanced for me - we are not responders. But, it was good video.	Provide examples of violations throughout the State of Hawaii at this level.	Overall - very informative with new information.	5	Lots of information on each slide. Would like to access and edit the ppt to show company employees.	5	Facility arrangement was adequate. Overall - very good.
	8/28/2014	AML (?)		Jon Satre	5		Spill Drill Video	Kinda long.	5		5	
	8/28/2014	Unknown		No Name	5				5		5	
	8/28/2014	Unknown		No Name	5		Examples using photos, video, muffins		4		3	Seats are hard. Use the tables.
				AVERAGES	**4.63**				**4.49**		**4.73**	

93%

Attachment 11. Tenant Survey

a. Summary of Survey Results
b. Completed Surveys

DOT Harbors Environmental Division
2014 Tenant Training Questionnaire Data
Date: 9/16/2014

Totals:

	Question 1	*Question 2*	*Question 3*	*Question 4*	*Question 5*	*Question 6*	*Question 7*	*Question 8*	*Question 9*	*Question 10*
Total Correct (count per question)	82	85	87	78	85	83	84	85	80	78
Total Wrong (count per question)	5	2	0	9	2	4	3	2	7	9
Total Wrong (percentage)	5.75%	2.30%	0.00%	10.34%	2.30%	4.60%	3.45%	2.30%	8.05%	10.34%
Total Answered	**87**	**87**	**87**	**87**	**87**	**87**	**87**	**87**	**87**	**87**

Percentages:

Overall Total Correct	827
Overall Total Answered	870
Percent Correct	**95.06%**

Overall Total Wrong	43
Overall Total Answered	870
Percent Wrong	**4.94%**

Comments:

Name	Company	Date	Comments
Nathan Kapule	Young Brothers	7/25/2014	Question #7: Washing salt off vessel exterior is allowed, washing salt off automobiles, that are considered cargo, is not allowed because of the pollutant runoff (i.e. dirt, road grime, brake dust, petroleum, etc.)
Jessie Galaviz	Petrospect	8/27/2014	Do not see a spill kit
Monica Gavey	BEI Hawaii	8/26/2014	Cannot see very well

2014 DOT Harbors Tenant Training Survey

Name:_____ **Date: _____**

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate potential stormwater pollutants?
   a. Fueling without proper procedures.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Nathan Kapule **Company:** Young Brothers Limited **Date:** July 25, 2014

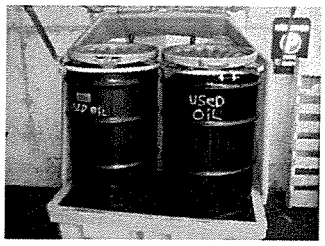
1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.



6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

Question #7: Washing salt off vessel exterior is allowed - Washing salt off automobiles, that are considered cargo, is not allowed because of the pollutant runoff i.e. dirth, road grime, Brake dust, petrolum, etc.

2014 DOT Harbors Tenant Training Questionnaire

Name: FRANCIS H. YOSHIDA **Company:** OCEANTRONICS, INC. **Date:** 7-25-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Eve Williams **Company:** Hawaii Gas **Date:** 7/25/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: HERB Nuhic **Company:** HPA / HPBS INC **Date:** 7-26-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Shanyn Kauihou **Company:** PENCO **Date:** July 29, 2014

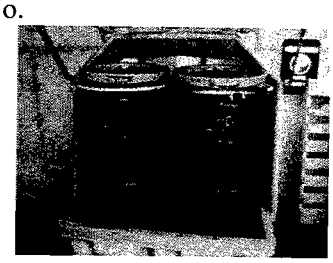
1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.



6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Paul Kawatta **Company:** AES Hawaii **Date:** 7/30/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: LINDA GOLDSTEIN **Company:** AMERON HAWAII **Date:** 7-31-2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   (b) Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   (d) All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   (d) Rainwater.

4. What is the definition of an illicit discharge?
   (a) A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   (a) Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   (a) True. – Specifically for Building Power Washing per BMP
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   (d) All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   (a) True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   (d) B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    (b) False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: CHARLES R. HOWARD **Company:** MARITIME LICENSE CTR **Date:** 8/1/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

RECEIVED
JUL 31 2014

2014 DOT Harbors Tenant Training Questionnaire

Name: William J Ishikawa **Company:** Norman's Tractor Service **Date:** 7-26-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: DANE WURLITZER **Company:** HAWAIIAN CEMENT **Date:** 8-6-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: MIKE LESLIE **Company:** SAUSE BROS **Date:** 8/7/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: FRANK ROZNOWSKI **Company:** HORIZON LINES **Date:** 8/1/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   (b) Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   (d) All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   (d) Rainwater.

4. What is the definition of an illicit discharge?
   (a) A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   (a) Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   (a) True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   (d) All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   (a) True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   (d) B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    (b) False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: GLENN JINBO **Company:** AIRCRAFT SERVICE INT'L GROUP (ASIG) **Date:** 8.18.14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Bruce McOwan **Company:** Friends of Falls of Clyde **Date:** 8-20-2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Steve Hinton **Company:** Marisco, Ltd. **Date:** 8/25/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Gayle Saif **Company:** Unify Recovery LLC **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: EDWARD AU **Company:** GLP ASPHALT **Date:** 8-28-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: HUNG HOANG **Company:** VAK FISHERIES LLC **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Kim Lu **Company:** VAK Fisheries LLC **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Raymond Rodriguez **Company:** Yak Fisheries LLC **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: C CHONG **Company:** KAGAMI INC **Date:** 8-24-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: Glenn Tribo **Company:** ASIG / HFFL **Date:** 8.28.14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
   a. True.
   b. False.

Comments:

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: Kirk Tengan **Company:** Ameron Hawaii **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-1

2014 DOT Harbors Tenant Training Questionnaire

Name: John Hinely **Company:** Wind and Sea Charters **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   (b) Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   (d) All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   (d) Rainwater.

4. What is the definition of an illicit discharge?
   (a) A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   (a) Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   (a) True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   (d.) All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   (a) True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   (b.) Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    (b) False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Dennis Hoang **Company:** Hi-Sea Fishing **Date:** 8/28/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-3

2014 DOT Harbors Tenant Training Questionnaire

Name: Rodney Tamamoto **Company:** AAA Ship Svc **Date:** 8-20-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

James@ronsconcretespecialist.com
808) 845-0467 Fax) 845-0573

-3

2014 DOT Harbors Tenant Training Questionnaire

Name: James Mainaanpo **Company:** Ron's Concrete Specialist Ltd. **Date:** Thur 8-28-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Jessie Galaviz **Company:** Petrospect, Inc. **Date:** 8/27/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

Comments: Do not see a spill kit.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: Sosaia Taumoefolau **Company:** Horizon/HSI **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: CHRISTINA HUON **Company:** JTB HAWAII INC **Date:** 08/20/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Rusty Nall **Company:** American Marine Corp. **Date:** Aug. 28, 2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Glenn Toyama Company: Healy Tibbitts Builders Inc. Date: 8/27/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-1

2014 DOT Harbors Tenant Training Questionnaire

Name: Theresa Mansiba **Company:** Norman's Trac Serv. **Date:** 8-28-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: S. Morita **Company:** P&R Water Taxi **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes. (Sealed?)
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: Andrew de Leon **Company:** BEI Hawaii **Date:** 8/20/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-2

2014 DOT Harbors Tenant Training Questionnaire

Name: Patrick Gile **Company:** CLEAN Island **Date:** 8/29/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Zachary Dixon **Company:** American Marine **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: DC CARTER **Company:** PACIFIC ENVIRONMENTAL CORPORATION **Date:** 28 SEP

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

Comments:

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

2014 DOT Harbors Tenant Training Questionnaire

Name: Nathan Lingard **Company:** AlohaTower MarketPlace **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: BERT BARBER **Company:** NANAKULI HOUSING BASEYARD HAWAII **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Rodney Yee **Company:** Pioneer Machinery Inc. **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Monica Gorey **Company:** BEI Hawaii **Date:** 8/26/14

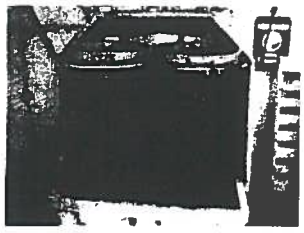
1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.



Comments: Cannot see very well

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

2014 DOT Harbors Tenant Training Questionnaire

Name: VEKUA KELII **Company:** ATLANTIS SUBMARINES HAWAII **Date:** _____

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   ~~b.~~ Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   ~~d.~~ All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   ~~d.~~ Rainwater.

4. What is the definition of an illicit discharge?
   ~~a.~~ A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   ~~a.~~ Yes. COVERED, ON OVER FLOW
   b. No. CONTAINMENT

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   ~~a.~~ True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   ~~d.~~ All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   ~~a.~~ True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   ~~d.~~ B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    ~~b.~~ False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Rick Preston **Company:** Aloha Contain **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: SHANE CLARKE **Company:** ALOHA Tower Marketplace **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Monte Kalama **Company:** MATSO **Date:** 8/22/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Jay Dowsett **Company:** Friends of Hokulea & Hawaiiloa **Date:** 8-28-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Robert Steinke Company: Steinke Bros. Inc Date: 7/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Brian Daniel **Company:** Oceantronics Inc **Date:** Aug 28, 2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

(HAWAII MARITIME CENTER)

Name: DONALD R. BELL **Company:** BISHOP MUSEUM **Date:** 08/28/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: BENTON CHING **Company:** US ARMY CORPS OF ENGRS **Date:** 8/28/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

-1

2014 DOT Harbors Tenant Training Questionnaire

Name: CYN **Company:** ETC **Date:** 8/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

2014 DOT Harbors Tenant Training Questionnaire

Name: Byron Fonseca **Company:** ERIK Builders **Date:** 8-25-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Derek High **Company:** Fresh Island Fish **Date:** 9/11-2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: NEIL KONENKOTW **Company:** POP/NICO'S **Date:** 9/11/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Jeff Lansdown **Company:** Mikoliana **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: William Hannah **Company:** Wikoliana **Date:** 11 Sep 2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Keahi Bruch **Company:** Matson **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Dave Thompson **Company:** MATSON **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: EMERSON CHANG **Company:** COMMERCIAL GLASS + METAL/TROUBLE FREE CORP **Date:** 9-10-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
   a. True.
   b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: PAUL FUKUNAGA **Company:** PF MARINE **Date:** 9-9-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Ronald Chun **Company:** Honolulu Marathon **Date:** 9/10/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Gordon Furtado **Company:** DHX **Date:** 9/10/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: JEFF LATHROP **Company:** PACIFIC SHIPYARDS **Date:** 9/11/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: FRANK WHITE **Company:** CONTAINER STORAGE **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

8/10

2014 DOT Harbors Tenant Training Questionnaire

Name: NEPHI DHAI **Company:** OCEANIC LIBRA **Date:** 11 SEP 14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Kerry Atkins **Company:** McCabe **Date:** 9/9/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Yasuhiro Kinugasa **Company:** Norko Marine **Date:** 9/11/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Norman Chey **Company:** Norks Marine **Date:** 08/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Phillip Castillione **Company:** Pacific Shipyards **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Trevor Kubo **Company:** The Pasha Group **Date:** 9-10-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   (b.) Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   (d.) All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   (d.) Rainwater.

4. What is the definition of an illicit discharge?
   (a.) A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   (a.) Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   (a.) True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   (d.) All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   (a.) True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   (d.) B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    (b.) False.

Comments:

9/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Ken Higuchi **Company:** AB **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

9/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Gordy Fowler Company: P&R Water Taxi Pier 36 Hawaii Resource Grp Date: 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

X 9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
   a. True.
   b. False.

Comments:

8/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Sidney **Company:** Niu Nursery **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Marshall Foy **Company:** Hawaiian Ice Co. **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Keola Goo **Company:** Jas. W. Glover, Ltd. **Date:** 09/11/2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Floyd Otani **Company:** United Fishing Agency **Date:** 7/28/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: DAVID GRIFFITH **Company:** AMERICAN MARINE CORP **Date:** 11 Sept 2014

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Joe F. Vele **Company:** Dependable Haun Xpress **Date:** 09-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   (b.) Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   (d.) All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   (d.) Rainwater.

4. What is the definition of an illicit discharge?
   (a.) A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   (a.) Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   (a.) True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   (d.) All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   (a.) True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   (d.) B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    (b.) False.

Comments:

9/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Michael Barnall **Company:** American Marine Co. **Date:** 09-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: J. Gomes **Company:** Hawaiian Cement **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Nelson Arceville **Company:** United Fishing Agency **Date:** 8/10/14.

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name:_____ **Company:** Inchcape Shipping Services (NYK Lines) **Date:** 9/10/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

8/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Matt Buckman **Company:** Hawn Cat **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Leslie Ryan **Company** Sea Engineering **Date:** 9.11.14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: TIM BYAM **Company:** Grain Craft (Pendleton Flour Mills) **Date:** 9-11-14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

10/10

2014 DOT Harbors Tenant Training Questionnaire

Name: Jamie Feldhacker **Company:** Grace Pacific **Date:** 9/11/14

1. Where does storm water runoff go after it enters the storm drain?
   a. The wastewater treatment plant.
   b. Through the storm drain system and into the harbor without treatment.
   c. EPA's front door.
   d. None of the above.

2. Which of the following activities can generate stormwater pollutants?
   a. Fueling without spill containment.
   b. Hand washing if sink or washwater is not contained.
   c. Uncontained material storage.
   d. All of the above.

3. Which of the following are permitted to be discharged into the storm drain?
   a. Detergents and equipment wash water.
   b. Petroleum products such as oil, diesel, and gasoline.
   c. Paint.
   d. Rainwater.

4. What is the definition of an illicit discharge?
   a. A non-stormwater discharge that poses a risk to the environment.
   b. A stolen discharge.
   c. Stormwater entering the storm drain.
   d. None of the above.

5. Is the picture below an example of a GOOD Best Management Practice (BMP) for material storage?
   a. Yes.
   b. No.

6. True or False? A written consent is required from DOT Harbors to conduct washing activities at a tenant space.
   a. True.
   b. False.

7. Which of the following are good examples of BMPs for vessel maintenance activities?
   a. Washing salt off vessel exterior using clean water only.
   b. Perform maintenance while vessel is out of the water, such as in dry dock.
   c. Use a tarp or other containment device to capture drips/chips from painting or grinding operations.
   d. All of the above.

8. True or False? Every tenant should have a spill kit on-site to promptly respond to spills that may occur.
   a. True.
   b. False.

9. If construction activities are planned for a tenant space at Honolulu Harbor or Kalaeloa Harbor, what is required?
   a. Contractor may begin working with no plan review.
   b. Construction plans must be submitted to DOT Harbors in accordance with the Construction Site Runoff Control Manual.
   c. Obtain an NPDES permit from the Department of Health if the work will disturb more than one acre.
   d. B & C.

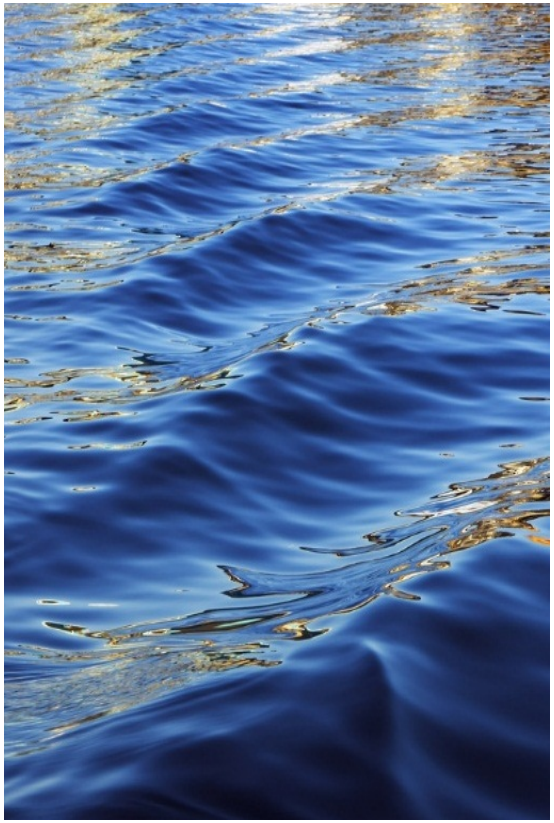
10. True or False? According to the Hawaii Revised Statutes Title 15 Chapter 266, fines of $10,000 per violation per day **CANNOT** be issued for environmental violations.
    a. True.
    b. False.

Comments:

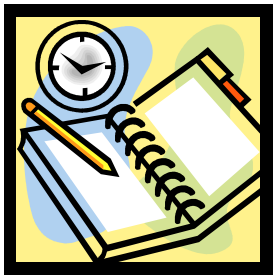
Attachment 12. Construction & Post-Construction Training

a. Presentation
b. Sign-In Sheets
c. Summary of Survey Results
d. Completed Surveys

2014 DOT Harbors Construction and Post-Construction Training



Agenda



- Introduction
- Environmental Impacts
- NPDES Program and Changes to 11-55, App C
- MS4 NPDES Program, SWMP, and Consent Decree Requirements
- Plan Review
- Conducting Inspections
- Enforcement
- Survey

PLEASE ASK QUESTIONS AT ANY TIME!

Introduction: Why should we protect the environment?

- To be good stewards of the environment.

  - For our own use.
  - For the local economy (e.g. tourism, fishing).
  - To protect the environment.
    - Coral reefs are sensitive to pollution.
    - Endemic species (found only in Hawaii).

Introduction: Why should we protect the environment?

- To conform with Harbor's policies.
  - Director of Transportation's policy.
  - Storm Water Management Plan (SWMP), Sections C and D.
- To comply with environmental laws.
  - NPDES permit (MS4 and construction).
  - Consent Decree.
  - HAR 11-54 & 11-55.

Stormwater Discharges

- Stormwater carries pollutants generated during outdoor activities to the nearest storm drains or waterways.
- Stormwater is **not** treated before it is discharged to the ocean.
- It is vital to control pollutant sources **before** they are discharged in order to protect the harbor.

Definition of Illicit Discharge

- Non-stormwater discharge that poses a risk to the environment.

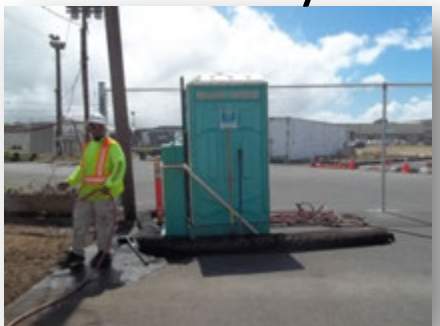
Only Rain in the Storm Drain!

Common Pollutants

Vehicle Fluids.

Chemicals.

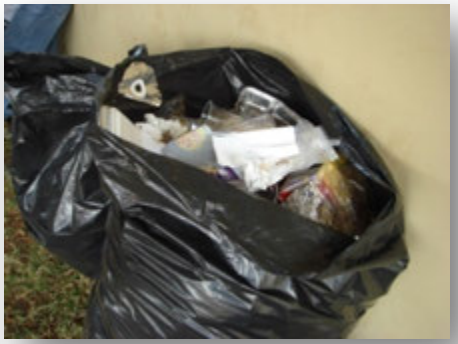
Lavatory.



Aggregate.

Washouts.

Trash.



Sediment.

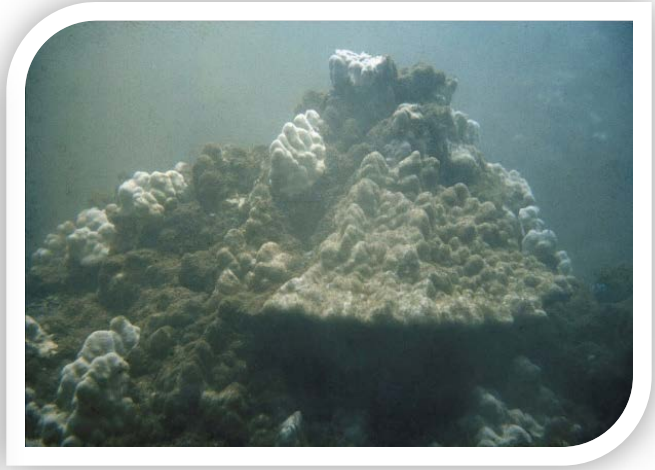
Potential Pollutant: Sediment

- Erosion:
  - Process by which the land surface is worn away by the action of water or wind.

- Sedimentation:
  - Movement and settling out of suspended soil particles.

Stormwater Impacts

- Sediment: Even dirt is a pollutant when discharged!



- Chemicals: Oil spills.

Construction Impacts

Sedimentation

Unstabilized Construction Site

Between **35-45 tons** of sediment per acre each year.

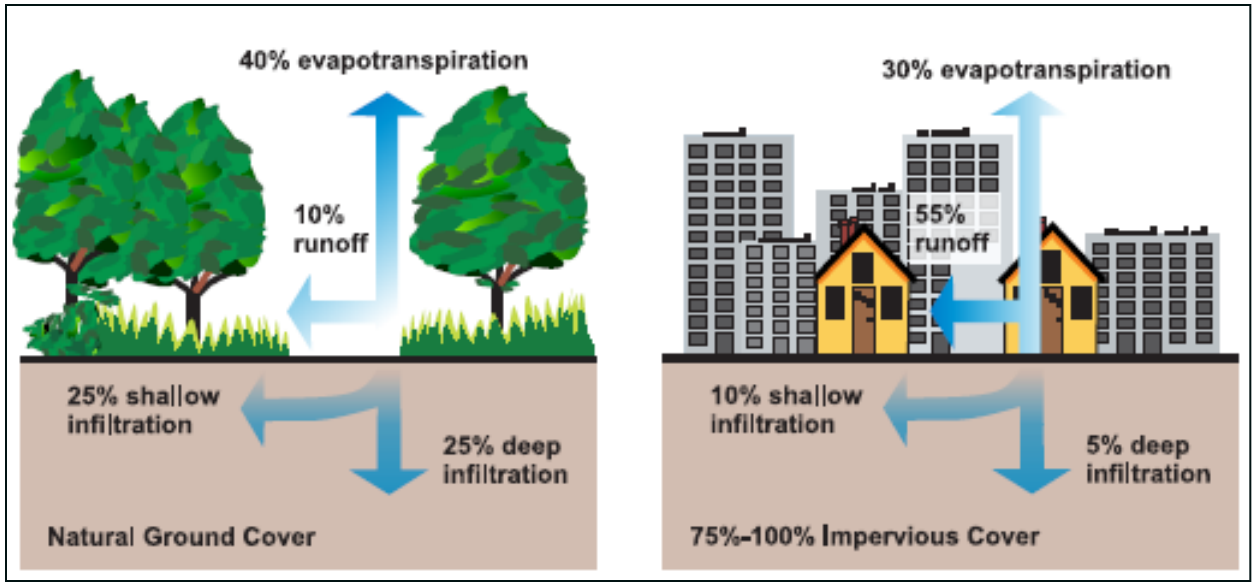
VS

Forested Land / Grassy Areas

Approximately **1 ton** of sediment per acre each year.

Post-Construction Impacts

Construction Activities. → Increased Impervious Surface. → Increased Stormwater Runoff. → Increased Pollutant Discharge.



Source: EPA 841-F-03-003

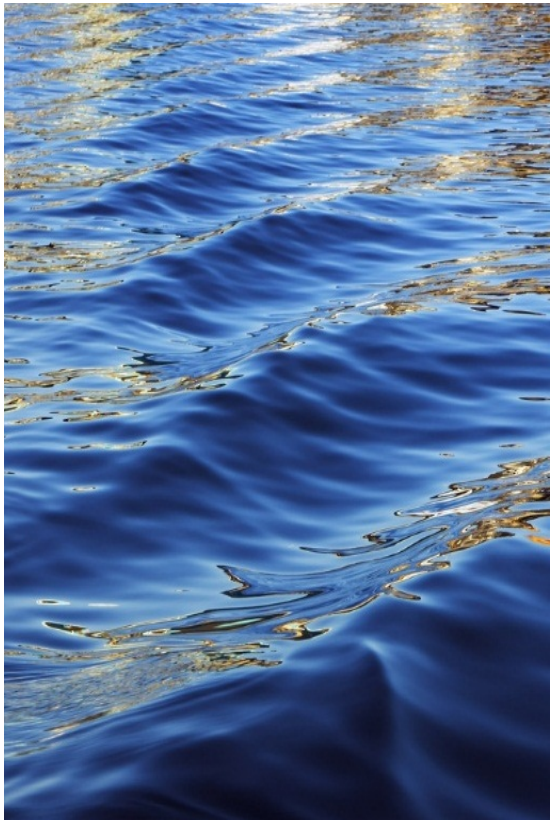
Regulatory Background

- 2003: NPDES permits from DOH for the storm drainage system at Honolulu Harbor and Kalaeloa Barbers Point Harbor.
  - Required to implement programs to minimize pollutants in runoff and the amount of runoff leaving the site.
- January 30, 2006: DOT entered into a consent decree with EPA and DOH.
  - Harbors was required to develop an EMS.
- Recently: EPA audits have led to a second consent decree due to concerns about implementation of stormwater programs.

Requirements

- Compliance with DOH NPDES program for construction:
  - **Statewide:** All construction projects that disturb 1 acre or more of land.
  - **Statewide:** All construction projects that disturb less than 1 acre but are part of a larger common plan of development.
- Compliance with DOT Harbors Construction program:
  - **Oahu:** All construction projects regardless of size, unless exempted.
- Compliance with DOT Harbors Post-Construction program:
  - **Oahu:** Construction projects disturbing greater than 1 acre of land.

NPDES Program



What is NPDES?

- The Clean Water Act includes the NPDES program to regulate the discharge of pollutants from point sources to waters of the United States. Permitted discharges by DOH:
  - Stormwater associated with construction activities that disturb one (1) acre or more.
  - Stormwater associated with industrial activities (e.g. maintenance, washing, fueling, etc.).
    - Requires annual stormwater monitoring and submittal of Discharge Monitoring Report to DOH.
  - Stormwater from a Small Municipal Separate Storm Sewer System (MS4).
    - Honolulu and Kalaeloa Harbors covered under this permit.

NPDES Permits

- Department of Health, Clean Water Branch (DOH) administers NPDES permits for Hawaii.
  - Hawaii Administrative Rules (HAR) 11-55:
    - Appendix C: Construction.
      - Includes sites that disturb **1 acre or more**.
      - Includes sites smaller than one acre that are part of a larger common plan of development.
    - Appendix K: Small MS4.
      - **HI 03KB482 Honolulu Harbor Permit.**
      - **HI 03KB488 Kalaeloa Barbers Point Harbor Permit.**

NPDES for Construction

- Submit a Notice of Intent and develop a Stormwater Pollution Prevention Plan (SWPPP) 30 days prior to the start of activities.
- Notify the DOH 7 days prior to start.
- Train personnel on BMPs.
- Implement, inspect, and repair BMPs as necessary.
- Update SWPPP and maintain on-site.
- Submit a Notice of Cessation when area has been stabilized.

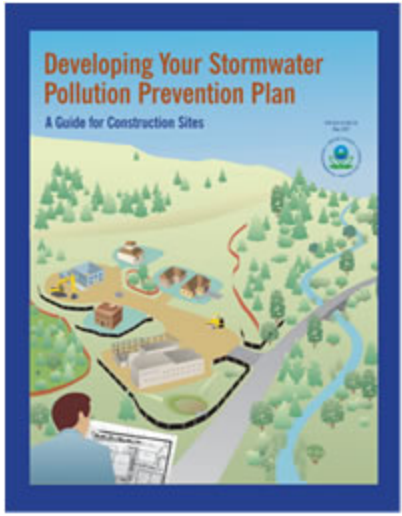
Changes to HAR 11-55, App C

- December 2013: DOH made changes to HAR 11-55, App C.
  - NOI submitted via e-permitting website.
  - Permittee must complete and keep on-site:
    - SWPPP.
    - Record of changes to the SWPPP (complete in 7 days).
    - Monthly compliance reports.
    - Inspection reports (within 48 hours).
    - Corrective action reports (start within 24 hours and finish with 7 days).
  - All documents must be signed by certifying person or duly authorized representative.

Changes to HAR 11-55, App C

- SWPPP must include:
  - **Personnel on the stormwater team**.
  - Contractor and sub-contractor information.
  - Nature and sequence of construction activities.
  - Description of sources of non-stormwater.
  - Potential sources of stormwater pollution and measures to reduce or eliminate.
  - Description of buffer option implemented.
  - **Description stabilization practices and post-construction BMPs.**
  - Inspection, maintenance, and corrective action procedures.
  - Training documentation.
  - NGPC and other permits.
  - Documentation of UIC well requirements, if applicable.

Changes to HAR 11-55, App C



- SWPPP must include a site map:
  - Locations of earth-disturbing activities.
  - Topography including slopes before and after grading.
  - Stockpiles locations.
  - Contaminated soils.
  - Direction of discharge to state waters and other drainage systems (Harbors MS4).
  - Entry/exit points.
  - Structures and impervious surfaces.
  - Staging area.
  - **Boundary lines of buffer areas.**
  - Potential pollutant activities and storage areas.
  - All BMPs.

Changes to HAR 11-55, App C

- Natural Buffers:
  - Required when a state water is within 50 feet of ground disturbance.
  - Options:
    - Maintain a 50-foot undisturbed vegetated buffer.
    - If the buffer is less than 50 feet, also provide a double sediment control spaced 5 feet apart.
    - If there is no buffer, maintain a double sediment control spaced 5 feet apart and complete stabilization within 7 calendar days.
  - Delineate with flags, tape, or other marking.

Changes to HAR 11-55, App C

- Contractor Self-Inspection frequency:
  - For sites that are NOT discharging to impaired waters:
    - At least once every 7 days; **OR**
    - Once every 14 days and with 24 hours of a 0.25 inch rain event.
  - For sites that do discharge to impaired waters (e.g. Honolulu Harbor):
    - At least once every 7 days; **AND**
    - Within 24 hours of a 0.25 inch rain event and prolonged rain events.
      - Keep a rain gauge on-site!
  - Conducted by a qualified person.

Changes to HAR 11-55, App C

- Corrective Actions:
  - Only for actions to **stop or prevent** a violation of water quality (HAR 11-54).
  - Fix the problem immediately (start the same day).
  - Significant repairs – complete within 7 days.
- Corrective Action Report:
  - Within **24 hours**: condition identified, date, time, and how it was identified.
  - Within **7 days:** follow-up actions taken, summary of BMP modifications.

Changes to HAR 11-55, App C

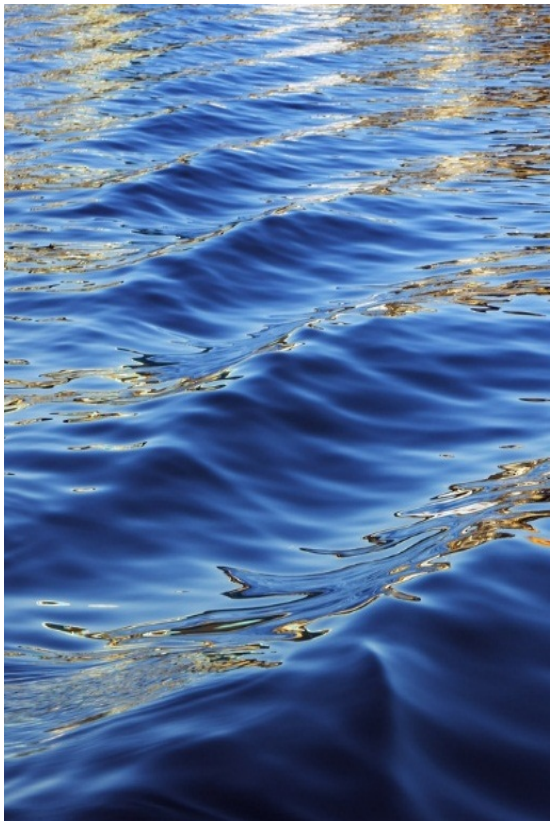
- Stabilization is required:
  - Immediately (by next day) whenever earth disturbing activities have ceased.
    - Temporarily ceased means no activities within **14 calendar days** or more.
  - Deadline for completion: ASAP but no later than **14 calendar days** after initiation.
  - Deadline for sites discharging to impaired waters: **7 calendar days** from the temporary or permanent cessation of earth disturbance.

Changes to HAR 11-55, App C

- Types of initiation of stabilization:
  - Prepping the soil for vegetation or non-vegetation stabilization.
  - Applying mulch.
  - Seeding and planting.
  - Making the arrangements for stabilization.
- Criteria for stabilization:

  - Vegetation evenly distributed that provides **70%** or more of density that was previously there.
  - Non-vegetative controls (e.g. pavement).

HDOT Harbors Program



What is an MS4?

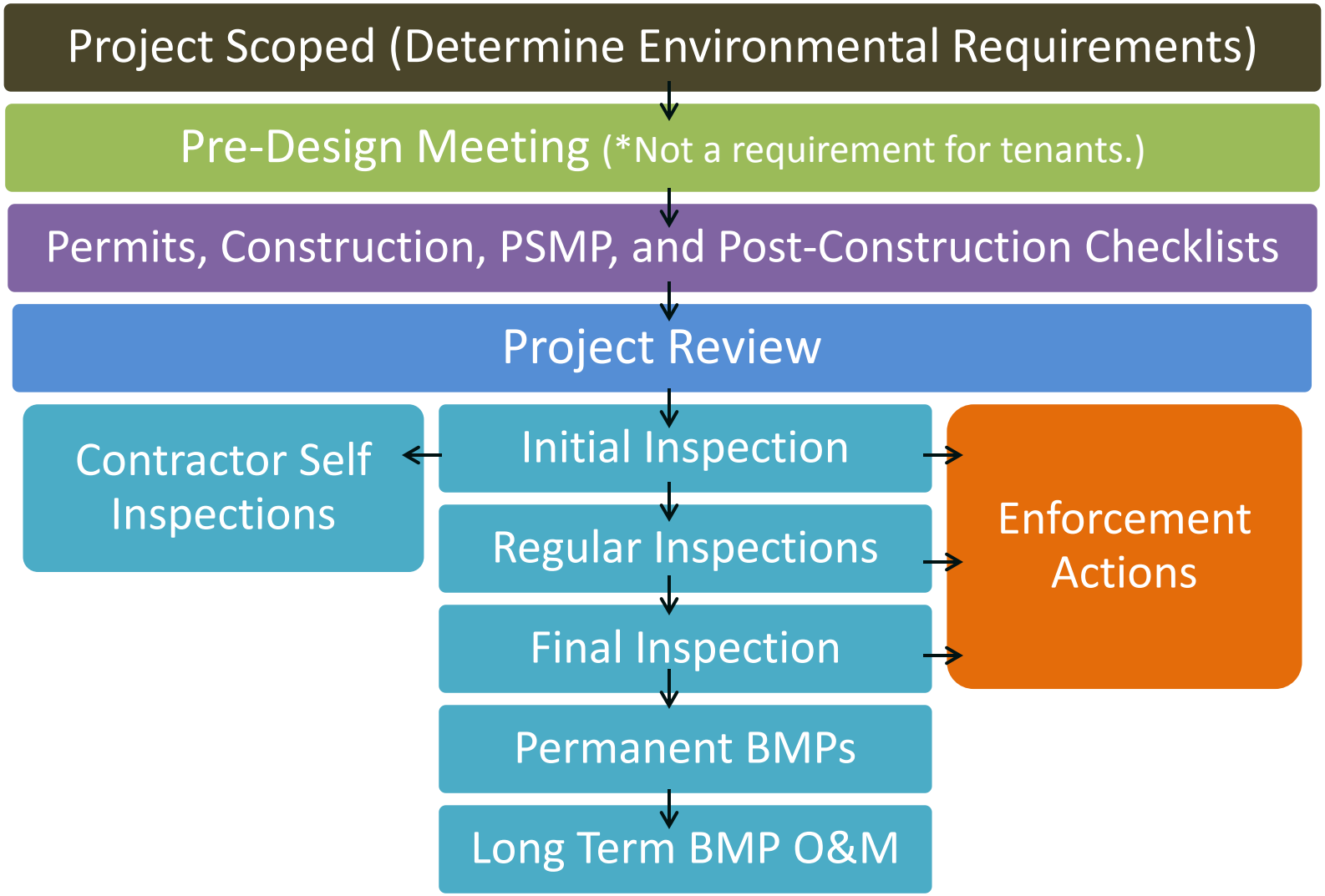
- An MS4 is the drainage system that conveys stormwater to the receiving water, including:
  - Storm drain inlets, catch basins, and manholes.
  - Channels / canals.
  - Underground pipeline.
  - Outfalls.

- MS4s are classified based on population size or those located in an urbanized area as defined by the Bureau of Census.

MS4 Permit Requirements

- The Stormwater Management Plan (SWMP) details how DOT Harbors will comply with the permit:
  - Public Education.
  - Public Involvement.
  - Illicit Discharge Detection & Elimination.
  - **Construction Site Runoff Control.**
  - **Post-Construction.**
  - Pollution Prevention / Good Housekeeping.

Harbor's Construction Process



Requirements

- Consent Decree listed specific requirements.
- These have been further described in the Stormwater Management Plan:
  - Construction Site Runoff Control Program.
  - Post-Construction BMP Program.
    - *Final versions have not been approved. Drafts are located on the O: Drive.
- Be familiar with both documents!

Stormwater Management Plan

- The old SWMP is available online:
  - http://hidot.hawaii.gov/harbors/library/storm-water-management/
- Details procedures for complying with requirements of HAR 11-55, App K and the Consent Decree.
- Updated version will be released shortly!

SWMP Definitions

- Construction:
  - Activities that result in land disturbance, including:

  - Construction related activities, including:
    - Stockpiles.
    - Borrow areas.
    - Staging areas.

SWMP Definitions

- Land Disturbance:
  - Penetration, turning, or moving of soil.
  - Resurfacing of pavement where the ground is exposed.
  - Grubbing where equipment is used to uproot vegetation.
  - Does <u>NOT</u> include:
    - Grass or weed cutting.
    - Bush or tree trimming that leaves the soil intact.

SWMP Definitions

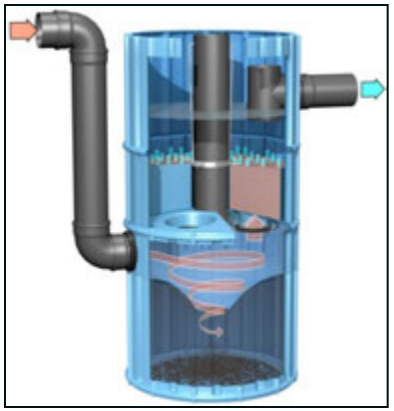
- Exempted projects:
  - Minor land disturbance on a single lot (e.g., minor landscaping activities).
  - Post, pole, sign, and fencing installation.
  - Utility repair work.
  - Parking lot, driveway, and other paved surface repair.
  - Repair and maintenance activities.

SWMP Definitions

- Best Management Practice (BMP):
  - Practice or device used to mitigate the discharge of potential pollutants.

SWMP Definitions

- Post – Construction or Permanent BMPs:
  - A BMP that will remain in place following construction to minimize the discharge of pollutants from activities on-site.
  - *These must have an Operations and Maintenance Plan.



Consent Decree Requirements

- Construction Site Runoff Control Program elements:
  - Plan Review Procedures.
    - Design Review Checklist.
  - BMP Standards and Technical Specifications.
    - Refer to SWMP Construction Program, Att 6.
  - Construction and Post-Construction BMP inspections.
  - Training program for plan reviewer and inspectors.

Construction Training Requirement

- Classroom Training:
  - General Program Management.
  - Construction Site BMP Inspections.
    - Conduct at least 3 construction site inspections.
  - Annual Refresher.
- Information Exchanges:
  - Pre-Bid Meeting.
  - Pre-Construction Meeting.
  - Other.

Construction Design Review

- Pre-Design Meeting.
- Documentation:
  - Notification Form for Project Less Than One Acre with BMP plan.
  - Drainage connection or discharge permit.

OR

  - Construction Design Review Checklist.
  - Completed NPDES applications.
  - Drainage connection or discharge permit.
  - Construction BMP plan sheets and details.
  - Stormwater Pollution Prevention Plan.

Construction Design Review Checklist

Hawaii Department of Transportation – Harbors Division

Construction Site Design Review Checklist

Project Description	
Project Title:	
Project Job No:	Acreage of Site:
Name of Design Firm:	
Projected Construction Timeframe:	
Description of Project:	

Site Information			
Construction Site Location:			
Latitude:		Longitude:	
Tax Map Key No(s).:			
Disturbed Area (to nearest tenth of an acre):		Total Project Area (to nearest tenth of an acre):	
Existing Percentage of Impervious Area:		Percentage of Impervious Area After Completion:	

Post-Construction Considerations

- Projects of 1 acre or more **must** consider the inclusion of post-construction BMPs.
  - Exceptions:
    - Maintenance activities.
    - Reroofing.
    - Interior work.
    - Utility work.
    - Replacement of damaged pavement.
- Include in Design Review Submittal:
  - Post-Construction BMP Plan Checklist.
  - PSMP – Post-Construction Stormwater Mitigation Plan.

Permanent Post-Construction Design Checklist

Hawaii Department of Transportation – Harbors Division

Permanent Post-Construction Best Management Practice Plan Checklist

For a Harbors Project, please fill in this section	
Project Title:	
Project Location:	
Acreage of Site:	Harbors Project No.:
Name of Design Firm:	
Email:	Phone No.:

For a Tenant Improvement Project, please fill in this section	
Tenant Business Name:	Date:
Project Title:	
Project Location:	
Acreage of Site:	TMK No. (if any):

Post-Construction Stormwater Mitigation Plan (PSMP)

Drainage Study and Conditions of Concern → Identify potential pollutants → Identify post-construction BMPs → Complete PSMP

- Applicable to anticipated activities on the site AFTER construction is completed.
- Contents:
  - Narrative of project.
  - Site map.
  - Description of potential pollutants.
  - Drainage study and conditions of concern.
  - Post-Construction BMPs.
  - Maintenance requirements.

PSMP – Potential Pollutants

Priority Project Categories	General Pollutant Categories								
	Sediment	Trash & Debris	Metals	Organic Compounds	Nutrients	Oxygen Demanding Substances	Oil & Grease	Bacteria & Viruses	Pesticides
Commercial Development > 1 acre	P[1]	P	P	P[2]	P[1]	P[5]	P	P[3]	P[5]
(Heavy) Industry Development	P	P	P	P		P	P		
Automotive Repair Shops		P	P	P[4,5]			P		
Restaurants		P				P	P	P	P[1]
Parking Lots	P[1]	P	P		P[1]	P[1]	P		P[1]
Fueling Facility		P	P	P		P	P		
Driveways	P	P	P	P[4]	P[1]	P[5]	P		P[1]

P = potential pollutant.
Refer to Section 3.1 of Post-Construction Stormwater Management Manual.

PSMP – BMP Selection

Order of Preference

- Select from these categories:
  - Low Impact Development (LID).
    - Goal = Keep the stormwater on-site and treat it as a resource instead of a waste.
    - Example = Conserve vegetated areas.
  - Source Control.
    - Goal = Keep potential pollutants from coming into contact with stormwater runoff.
    - Example = Covering a maintenance area.
  - Treatment Control.
    - Goal = Remove pollutants from stormwater runoff.
    - Example = Hydrodynamic separators.

PSMP – BMP Selection

- Refer to City and County of Honolulu resources.
  - BMP Manual for Construction. (http://cleanwaterhonolulu.com/storm/learning_center/BMP_manual_2011-11.pdf)
  - BMP Guide. (http://www.cleanwaterhonolulu.com/storm/notices/2012_sds_draft_rules/DPP_Storm_Water_BMP_Guide_(07-11-2012).pdf)
  - Rules Relating to Storm Drainage Standards. (http://www.cleanwaterhonolulu.com/storm/notices/2013_sds/index.html)
- Required capacities:
  - Volume based BMPs must capture 1 inch of stormwater.
  - Flow based BMPs must capture/treat rainfall intensity of 0.4 inches per hour.

Common Permanent BMPs

- Conserve Natural Areas, Soils, and Vegetation:
  - Conduct construction activities such that disturbance to existing vegetated areas is minimized, in particular trees.
  - Refer to CCH Storm Water BMP Guide, pg 4.

Ideal Implementation:
- In areas where there is existing vegetation

Common Permanent BMPs

- Vegetated Swale:
  - Broad earthen channel vegetated with erosion resistant and flood tolerant grasses.
  - Runoff is typically conveyed through channel, which allows for infiltration and treatment.
  - Refer to CCH BMP Guide, pg 86.

Ideal Implementation:
- Along streets and parking lots.

Common Permanent BMPs

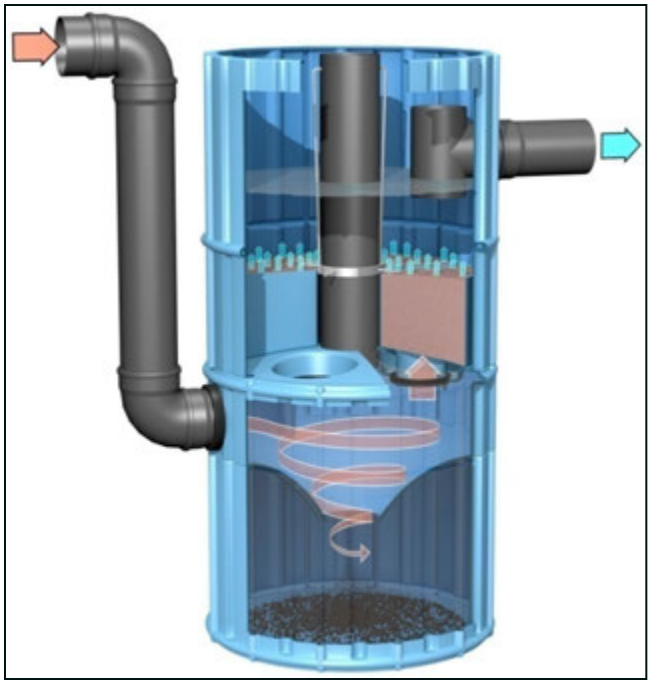
- Permeable Pavement
  - Paved surfaces that infiltrate, treat, and/or store rainwater where it falls.
  - Refer to CCH BMP Guide, Pg 57.

Ideal Implementation:
• Driveways and parking lots.
• Areas where flooding is a problem.

Common Permanent BMPs

- Hydrodynamic Separators.
  - Flow through structures with a settling or separation unit to remove sediments and other pollutants.
  - Refer to CCH BMP Guide, pg 104.

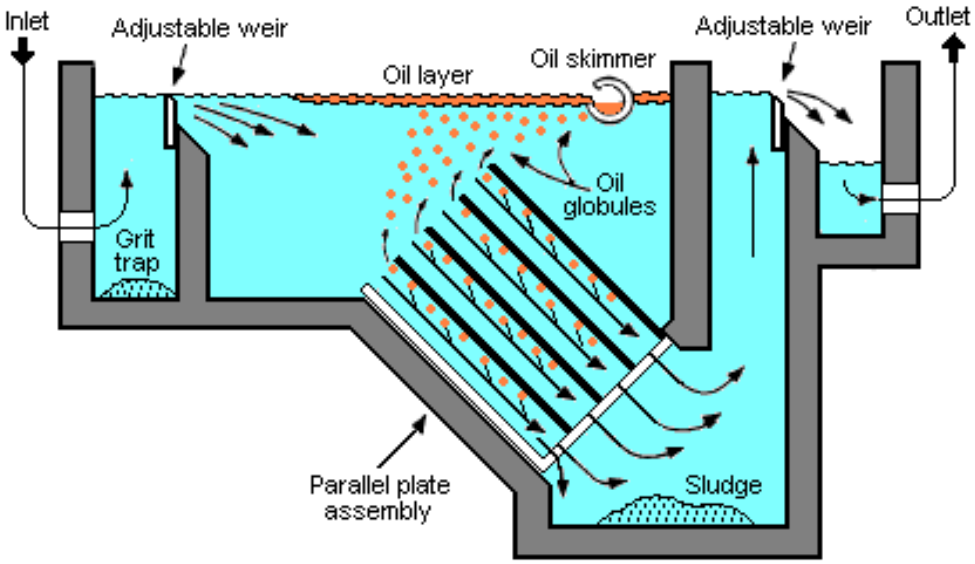
Ideal Implementation:
•Areas where materials to be removed from runoff are heavy particulates – which can be settled – or floatables –which can be captured, rather than solids with poor settleability or dissolved pollutants.



Preferred Permanent BMPs

- Oil Water Separators
  - Separates oil from water before discharge.
  - Refer to CCH BMP Guide pg. 15, Vehicle Cleaning.

Ideal Implementation:
•Areas where vehicle repairs or washing take place.



Construction Review

- Project review after contract award:
  - Contractor completes Stormwater Pollution Prevention Plan and provides to the Construction Manager (CM).
  - CM will submit to Environmental Section (EE).
  - EE will send their comments to the CM through memorandum.
  - Harbors Division will issue Notice to Proceed to the contractor, specifying:
    - First work order is the installation of BMPs.
    - BMPs must be inspected prior to the start of any other work.
  - EE maintains an inventory of construction sites.

Reviewing Plans

- When conducting a plan review:
  - Identify location and size.
  - Indentify where storm water will flow.
    - Identify waterways (e.g. coastline, canals) and storm drains.
    - Identify topography.
    - Identify ground cover and soil type.
  - Identify locations of potential pollutants.
    - Land disturbance activities.
    - Staging areas.
    - Non-storm water.

Reviewing Plans

- Determine the scheduling / phasing.
  - Is the main land disturbance activity planned for the dry season? (Apr – Sep)
  - Have there been efforts to minimize the disturbed area?
- Responsible parties.
  - Does the Stormwater Pollution Prevention Plan include the names or titles of parties responsible for:
    - Inspections?
    - Maintenance?
    - Recordkeeping?
    - Rain gauge monitoring?
    - Incident reporting?

Reviewing Plans

- Have potential pollutants been addressed via BAT / BCT?
- Ensure there is a plan for final stabilization.
- Does the design include permanent BMP?
  - Non-exempt projects one acre and larger.
  - Does the project include LID?
  - How is ongoing maintenance addressed in the plan?
- Have the necessary permits been applied for?

Reviewing Plans

- If over 1 acre, determine whether BMPs adequately address potential pollutants and the requirements of HAR 11-55-C.
  - BMPs should be based on expected amount, frequency, intensity, and duration of rain events in the area. (Typically: 2 yr, 24 hr storm).
  - Refer to City and County of Honolulu BMP manual for design details.

Consent Decree Requirements

- Use the City and County of Honolulu Stormwater BMP Manual – Construction. When applicable, all projects should include:

Erosion Controls	Scheduling
	Preservation of Existing Vegetation
	Slope Protection
	Run-on Diversion
Sediment Controls	Silt Fence
	Storm Drain Inlet Protection
	Sand Bag Barrier
	Stabilized Construction Site Entrance/Exit
Non-Stormwater Management	Water Conservation Practices
	Dewatering Operations
Waste Management	Material Delivery and Storage
	Stockpile Management
	Spill Prevention and Control
	Solid Waste Management
	Concrete Waste Management
	Sanitary/Septic Waste Management

Consent Decree Requirements

- Sites Disturbing 1 Acre or More:

Erosion Controls	Hydraulic Mulch
	Hydroseeding
	Soil Binders
	Geotextiles and Mats
	Wood Mulching
	Slope Drains
Sediment Controls	Silt Fence
	Fiber Rolls
	Sediment Basin
	Gravel Bag Berm
	Street Sweeping and/ or Vacuum
	Sand Bag Barrier
	Storm Drain Inlet Protection
	Scheduling
	Check Dam

Consent Decree Requirements

- Sites Disturbing 1 Acre or More:

Additional Controls	Wind Erosion Controls
	Stabilized Construction Entrance/ Exit
	Stabilized Construction Roadway
	Entrance/ Exit Tire Wash
	Advanced Treatment Systems
Non-Stormwater Management	Water Conservation Practices
	Dewatering Operations (Groundwater dewatering only under National Pollutant Discharge Elimination System Permit No. (TBD)
	Vehicle and Equipment Washing
	Vehicle and Equipment Fueling
	Vehicle and Equipment Maintenance
Waste Management	Material Delivery and Storage
	Stockpile Management
	Spill Prevention and Control
	Solid Waste Management

Consent Decree Requirements

- Roadway Paving or Repair:

1.	Restrict paving and repaving activity to **exclude periods of rainfall** or predicted rainfall unless required by emergency conditions.
2.	**Install gravel bags and filter fabric** or other equivalent inlet protection at all susceptible storm drain inlets and at manholes to prevent spills of paving products and tack coat.
3.	Prevent the discharge of release agents including soybean oil, other oils, or diesel to the stormwater drainage system or receiving waters.
4.	Minimize non-stormwater runoff from water use for the roller and for evaporative cooling of the asphalt.
5.	Clean equipment over absorbent pads, drip pans, plastic sheeting or other material to capture all spillage and dispose of properly.
6.	**Collect liquid waste in a container**, with a secure lid, for transport to a maintenance facility to be reused, recycled or disposed of properly.

Consent Decree Requirements

- Roadway Paving or Repair:

7.	Collect solid waste by vacuuming or sweeping and securing in an appropriate container for transport to a maintenance facility to be reused, recycled or disposed of properly.
8.	**Cover the "cold-mix" asphalt** (i.e., pre-mixed aggregate and asphalt binder) with protective sheeting during a rainstorm.
9.	**Cover loads** with tarp before haul-off to a storage site, and do not overload trucks.
10.	Minimize airborne dust by using water spray or other approved dust suppressant during grinding.
11.	Avoid stockpiling soil, sand, sediment, asphalt material and asphalt grinding materials or rubble in or near stormwater drainage system or receiving waters.
12.	Protect stockpiles with a **cover or sediment barriers during a rain**.

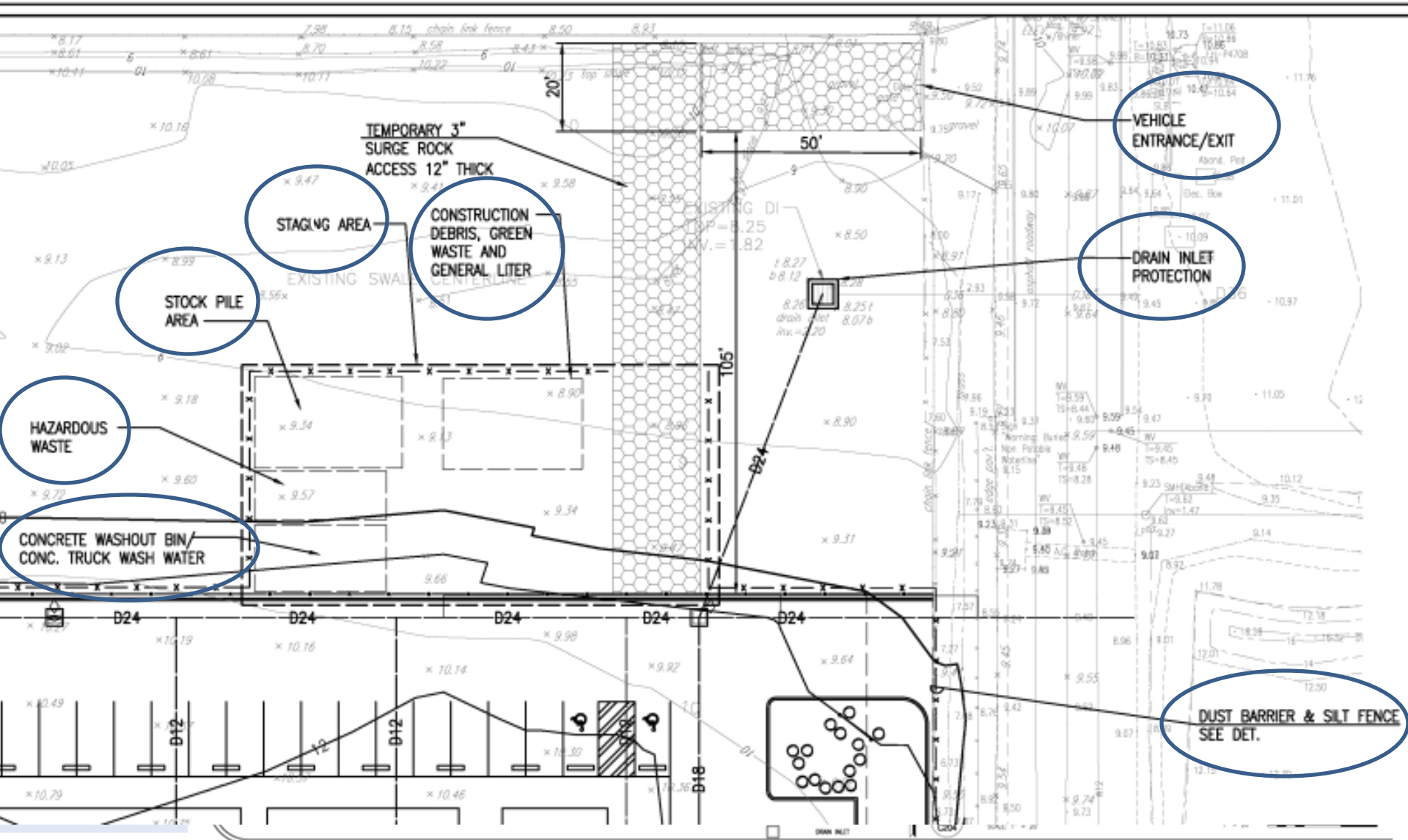
Plan Reviews: NPDES Permit Minimum Measures

- Provide natural buffer if within 50’ of state water.
  - Alternatives or exemptions may be applied based on site conditions.
- Install perimeter controls where water will flow.
- Minimize track-out.
  - Has a designated exit if equipment will be coming onto the site.
- Control stockpiles.
  - Use a temporary perimeter BMP or stabilize.
- Minimize dust.
- Minimize land disturbance on slopes.
  - Attempt to limit grading to less than 15% slopes.
- Minimize soil compaction.
  - Restrict vehicle and equipment use.
  - Condition the soil prior to seeding.

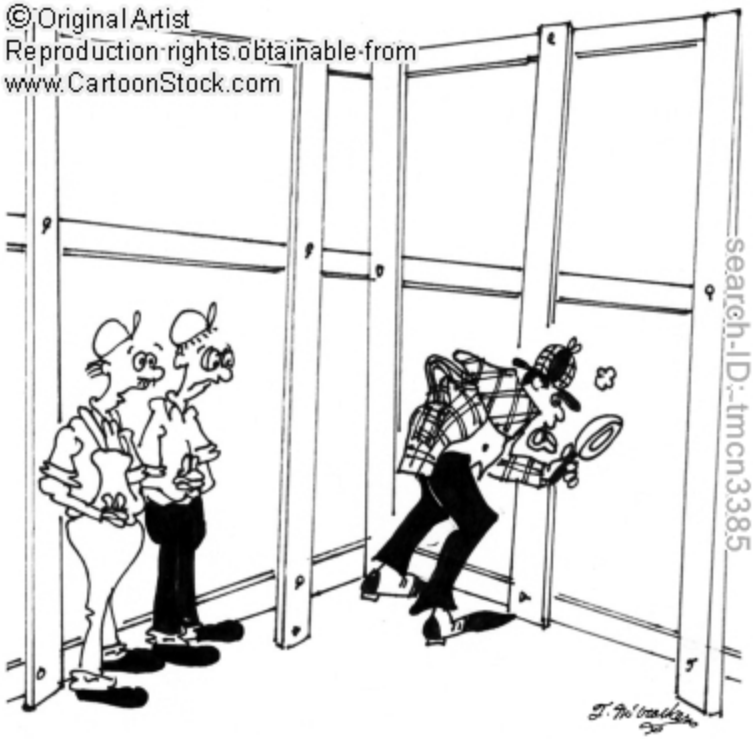
Plan Reviews: NPDES Permit Minimum Measures

- Protect drain inlets.
  - Only required when storm water is not properly managed with another method.
- Contaminated stockpiles.
  - Prevent storm water from impacting stockpile. OR
  - Prevent discharge of storm water from the area.
- Ensure non-storm water is contained (e.g. dewatering, concrete washout, vehicle washing).
- Written narrative for potential pollutant generating activities such as:
  - Vehicle and equipment fueling.
  - Washing vehicles and paint applicators.
  - Storage, handling, and disposal of construction materials, products, and wastes.

Example


TEMPORARY 3" SURGE ROCK ACCESS 12" THICK
VEHICLE ENTRANCE/EXIT
STAGING AREA
CONSTRUCTION DEBRIS, GREEN WASTE AND GENERAL LITER
DRAIN INLET PROTECTION
STOCK PILE AREA
HAZARDOUS WASTE
CONCRETE WASHOUT BIN/ CONC. TRUCK WASH WATER
DUST BARRIER & SILT FENCE SEE DET.
20'
50'
105'
D24
D12
D18

Conducting Construction Site Inspections



"THEY SAY HE'S TOUGHEST INSPECTOR AROUND."

Harbor's Inspections

- Initial Inspection:
  - Verify all BMPs are installed appropriately.
  - Deficiencies must be corrected prior to the start of other construction work.
- Regular Inspection:
  - October to March: Every two weeks.
  - April to September: Every two months.
  - Deficiencies must be corrected or enforcement will commence.
  - Inspector will provide the contractor with report in five (5) calendar days.

Harbor's Inspections

- Final Inspection:
  - When all the following conditions are met:
    - Construction is inactive.
    - Exposed soil has been stabilized.
    - Remaining activities have minimal impact on stormwater runoff.
  - Document the conditions are met in the *Additional Notes* portion of the report.
  - Ensure that permanent BMPs are properly installed, if applicable.
  - Deficiencies must be corrected prior to issuance of final payment.

Harbor's Inspections

- Review completed Contractor Self Inspections:
  - For sites with NPDES permit:
    - Contractor's self inspections weekly AND within 24 hours of a 0.25 inch rainfall.
    - Signed by duly authorized representative.
  - Ensure contractor has completed or has a plan for completion of maintenance and repair of BMPs.
  - Any changes to BMPs must be documented.

Pre-Inspection Preparation

- Gather background data:
  - Construction plan review.
  - NPDES or MS4 connection permits.
  - Stormwater Pollution Prevention Plan and site map.
  - Harbors area drainage map.
  - Past inspection reports, if available.
  - Past enforcement correspondence, if applicable.
- Determine the stormwater drainage from the facility.
  - Receiving water.
  - Storm drain locations.
- Identify applicable BMPs.
- Identify special safety or scheduling concerns.

Bring to the Inspection Site

- Construction Inspection Checklist.
- Field book for notes and sketches.
- TWIC Badge.
- PPE – steel toed boots, hard hat, safety glasses, safety vest.
- Digital camera with charged batteries.
- Cell phone and contractor’s contact number.
- Map with storm drain connections.

Construction Inspection Checklist

- All inspections must be documented on the Construction Site BMP Inspection Checklist.
  - Included in the Construction Site Runoff Control Program, Att 4.
  - Copy provided to CM and Environmental Section for recordkeeping.
  - Keep a copy for your files.

Construction Site Best Management Practices Inspection Checklist

Date of Inspection:	Project Title:		
Contractor:	Project Job No.:		NGPC No.:
Inspector:	SSCBMP Updated and Onsite: ☐ Yes ☐ No		Photographs Attached: ☐ Yes ☐ No
Weather:			

AC: Adequate Containment
ACoC: Adequate Cover or Containment

		N/A	Control Device(s) Yes	Control Device(s) No	Require Maintenance Yes	Require Maintenance No	Description of Any Deficiency	Date Corrective Actions Taken	Notes
1.	Stabilized Construction Ingress/Egress?	☐	☐	☐	☐	☐			
	Vehicular Tracking	☐	☐	☐	☐	☐			
2.	Erosion Control Device(s) - Slopes/Exposed Area	☐	☐	☐	☐	☐			
	Sediment Control (Silt fence, Perimeter sock)	☐	☐	☐	☐	☐			
	Storm Drain Inlet Protection (Fabric filter, Witch's hat)	☐	☐	☐	☐	☐			
3.	Dust Control/Suppressant - Sawcutting/Demolition	☐	☐	☐	☐	☐			
	Concrete Washout Area (AC)	☐	☐	☐	☐	☐			
4.	Vehicle/Equipment Maintenance Area (ACoC)	☐	☐	☐	☐	☐			
	Vehicle/Equipment Cleaning Area (AC)	☐	☐	☐	☐	☐			
	Vehicle/Equipment Fueling Area (AC)	☐	☐	☐	☐	☐			
	Vehicle/Equipment Storage Area (AC)	☐	☐	☐	☐	☐			
5.	Construction Material Storage Area (ACoC)	☐	☐	☐	☐	☐			
	Stockpiles of Aggregate (ACoC)	☐	☐	☐	☐	☐			
6.	Flammable/Fuel Storage Area (ACoC)	☐	☐	☐	☐	☐			
	Hazardous Material Storage (ACoC)	☐	☐	☐	☐	☐			
	Waste Storage Area (ACoC)	☐	☐	☐	☐	☐			
7.	Good Housekeeping Practices (Is project generally free of litter, sediment, etc.?)	☐	☐	☐	☐	☐			
8.	Spill Prevention/Control - Spill Kit	☐	☐	☐	☐	☐			

Major Site Activities (please check any if applicable):
☐ Demolition ☐ Paving ☐ Excavation ☐ Hauling Materials ☐ Concrete Pouring ☐ Other, please specify:

If any of the item listed below checked "Yes", please provide detailed information under Additional Notes.

A. Is contaminated soil present? ☐ Yes ☐ No
B. Is sediment basin(s) present? ☐ Yes ☐ No
C. Is any illicit discharge present? ☐ Yes ☐ No
D. Dewatering and/or Hydrotesting - Is this project in compliance with these NPDES storm water permitting requirements? ☐ Yes ☐ No ☐ N/A

Verified By (HDOT Project Inspector/Engineer's Signature) _____ **Date** _____

Permanent Post-Construction BMP Inspection			
Please indicate inspection status here:	☐ Inspection During Construction Phase	☐ Final Inspection after Installation	☐ Other
Permanent post-construction BMPs are installed in accordance with construction plans.		☐ Yes	☐ No ☐ N/A
Notes:			

Additional Notes:

A. Management of Contaminated Soil:

B. Control and Maintenance Related to Sediment Basin(s):

C. Evidence of Discharge of Pollutant(s) to State Receiving Waters:

D. Summary of Dewatering and/or Hydrotesting Activity (please list permit numbers and verify compliance):

E.

F.

G.

Remarks: This checklist is to be completed before commencement of grading or site-work and then every two weeks from October through March, otherwise, bimonthly. Harbors Division will not allow construction activities to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the site-specific BMPs and pollution prevention devices are implemented correctly and in the appropriate locations.

State of Hawaii
Department of Transportation
Harbors Division

Arriving On-Site

- Announce your presence to the contractor.
- Convene a pre-inspection meeting with the contractor.
- Ask for applicable paperwork:
  - Permits.
  - Training records.
  - Self-inspections.
  - Corrective action reports.
  - Monthly compliance reports.
  - Updated site specific BMP plan.

Walking the Site

- Carry the Stormwater Pollution Prevention Plan site map to verify that BMPs match what is found in the field.
- Query workers about their knowledge of site BMPs.
- Inspect all drains, canals, and receiving waters for discharges.
- Inspect site perimeter for discharges or sedimentation.

Common Inspection Findings

BMP Plan was not available/updated.

- The BMP Plan is a living document.
  - The plan should be continually updated to reflect current site conditions.
  - Changes should be signed by certifying person or duly authorized representative.
  - The plan should be readily available to inspectors and workers on site.

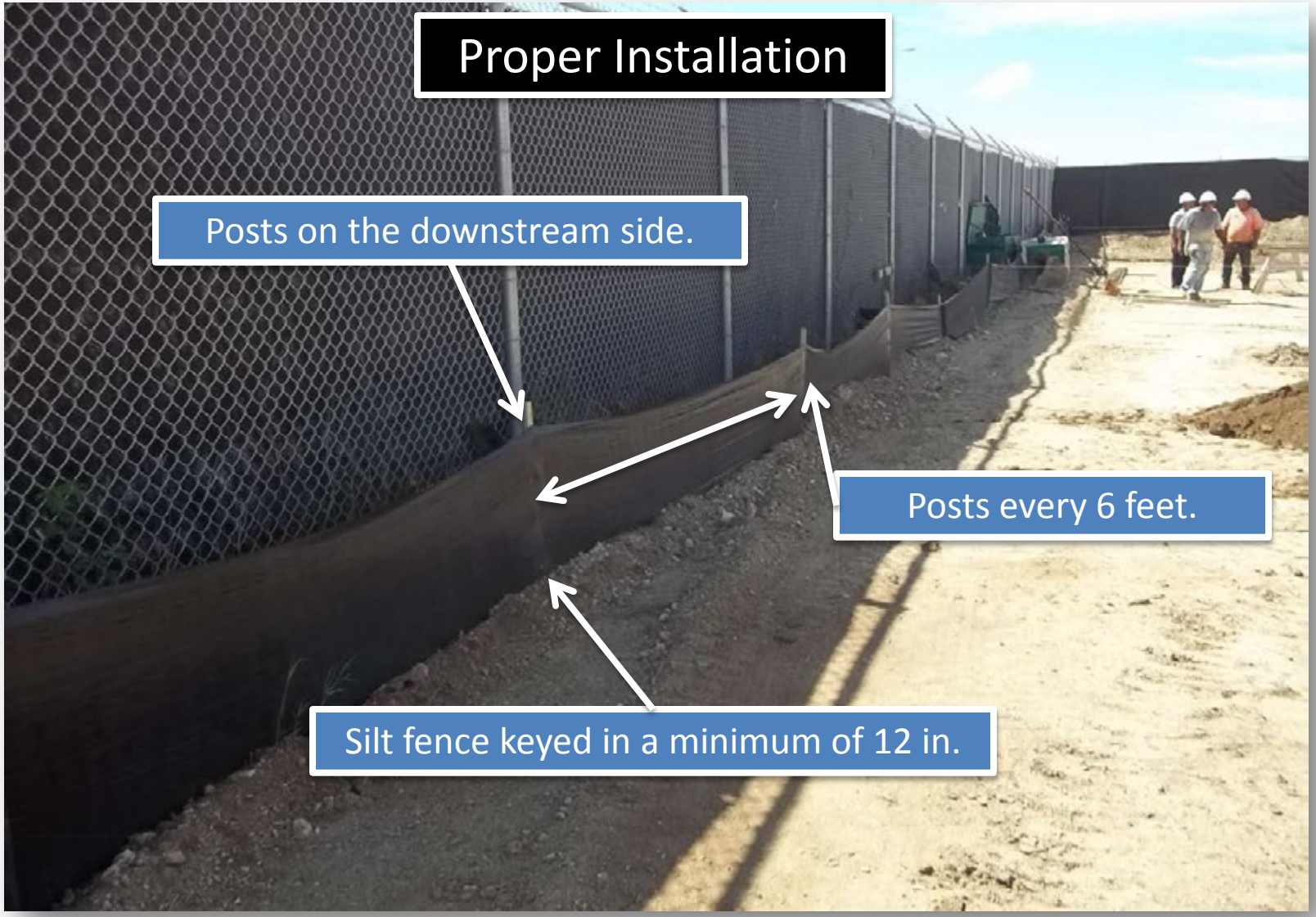
Common Inspection Findings

Stabilized Construction Entrance (TR-1)

- Prevents tracking.
  - Grade to prevent runoff.
  - Use 3-6 in diameter stones.
  - Minimum 12 in depth.
  - A minimum area of 50 ft length and 30 ft width.
  - Remove aggregate if it is clogged with sediment.
  - Combine with tire washing and/or street sweeping.

Common Inspection Findings

Silt Fence (SE-1)



Silt Fence (SE-1)

Photo Source: City of Lincoln

Join segments by twisting or overlap by 6 inches.

End segments with a J-hook.

Maintenance is required when sediment accumulation is 1/3 the height of the barrier.

Manufacturer's BMPs

Hard Surface Guard

- Sediment control.
- Provides some filtering capacity.
- Reduces stormwater flow velocity.

- Designed to handle traffic conditions.
- Reusable.
- Ensure proper seal to the ground.

Common Inspection Findings

Improper installation / maintenance of perimeter berms.

Compost Socks and Berms (SE-16)

- Ensure berm is filled.
- Place on level slope.
- Ensure close contact with ground surface.
- Overlap ends of socks by 6 inches.
- Turn ends of socks up slope.
- Remove sediment when it is 1/3 height of the berm.
- Replace or repair damaged sections of the berms.

Common Inspection Findings

Improper installation of erosion control matting.

Geotextiles and Mats (EC-7)

- Ensure good contact with the soil.
  - Remove rocks and other obstructions.
- Properly anchor.
  - U-shaped staples, stake pins, or wooden stakes.
  - At the top of the slope, backfill in 6-in trench.
  - Unroll blanket in direction of water flow.
  - Overlap 2-3 inches.
  - Staple every 3 ft.

Common Inspection Findings

Drain inlet protection not properly maintained.

Remove sediment.

Replace torn filter fabric.

Position berms to form a barrier by overlapping them.

SE-10: Maintenance is required when sediment accumulation is 1/3 the height of the barrier.

Common Inspection Findings

Improper management of saw cutting wastes.

Vacuuming fines without a filter.

Improper disposal of fines.

Wet saw cutting not vacuumed.

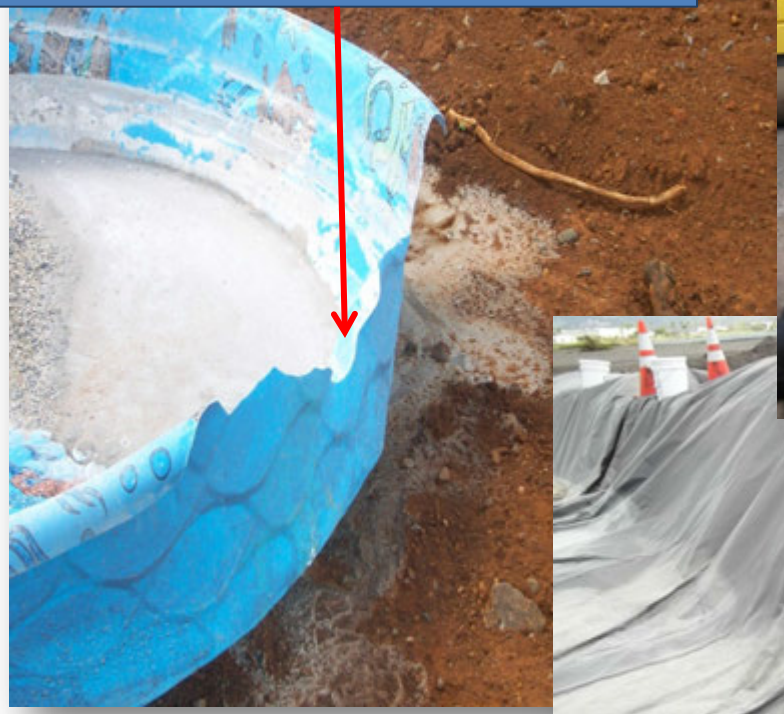
Paving and Grinding Operations (NS-3)

- Shovel or vacuum saw-cut slurry and remove from the site.
- Saw-cut fine particles if re-suspended in water or in wet slurry must follow the concrete washout BMPs.
- Properly dispose of fines.
- Control dust while sawcutting.

Common Inspection Findings

Improper concrete washout.

Kiddy pools degrade quickly due to corrosive washwater.



Cover / dispose when full.

Pits must be lined with a continuous sheet.

Concrete Waste Management (WM-8)

- Concrete washout is hazardous (pH $\approx$ 12).
- Wastes must be contained.
- Locate washout 50 ft from waterways.
- Minimum size is 10 ft by 10 ft.
- Plastic lining should be 10 mil and free of holes, tears, etc.
- Only fill containment to 75%.
- Cover is recommended if rain is expected.

Common Inspection Findings

Leaking equipment and lack of spill response.

Vehicle and Equipment Maintenance (NS-10)

- Regularly inspect vehicles and equipment for leaks.
- Use drip protection.
  - Pans.
  - Absorbent material backed with barrier.
  - Ensure it is positioned properly.
- Have spill kit available.
- Ensure workers are trained on spill response.

Spill Kits

- All contractors should have a spill kit available.

- Contents:
  - Absorbent materials.
    - Kitty litter, absorbent pad, berms, etc.
  - PPE such as gloves and goggles.
  - Bag or container for disposal.
  - Non-sparking tools for absorbent removal (broom and plastic dust pan).
- Ensure that spills are properly reported.

Common Inspection Findings

Uncontained stockpiles.

Stockpiles near drainage swales.

Stockpile Management (WM-3)

- Stockpile is aggregate stored for multiple days.
- Maximum height is 15 ft.
- Locate away from waterways (50 ft).
- Use perimeter controls (berms, silt fence).
- Stabilize stockpile (cover, grass).

Inspection Findings

Improper disposal of paint.

Material Use (WM-2)

- Use tarps to contain paint drips / chips.
- Mix and store paint within secondary containment.
- Clean painting equipment by:
  - Scraping off excess paint.
  - Wash in a contained area (e.g. bucket).

- Dispose of oil based paints as hazardous wastes.
  - All others may be dried, bagged, and disposed with general rubbish.

Common Inspection Findings

Improper hazardous material management.

No Label.

No containment.

Rusting causes container breach.

Material Delivery and Storage (WM-1)

- Store materials in a covered area.
  - If drums must be kept uncovered, store them at an angle to reduce the ponding of rainwater.
- Do not store chemicals, drums, or bagged materials on the ground.
  - Use a pallet and when possible secondary containment.
- Ensure all containers are properly labeled.

Common Inspection Findings

Improper solid waste management.

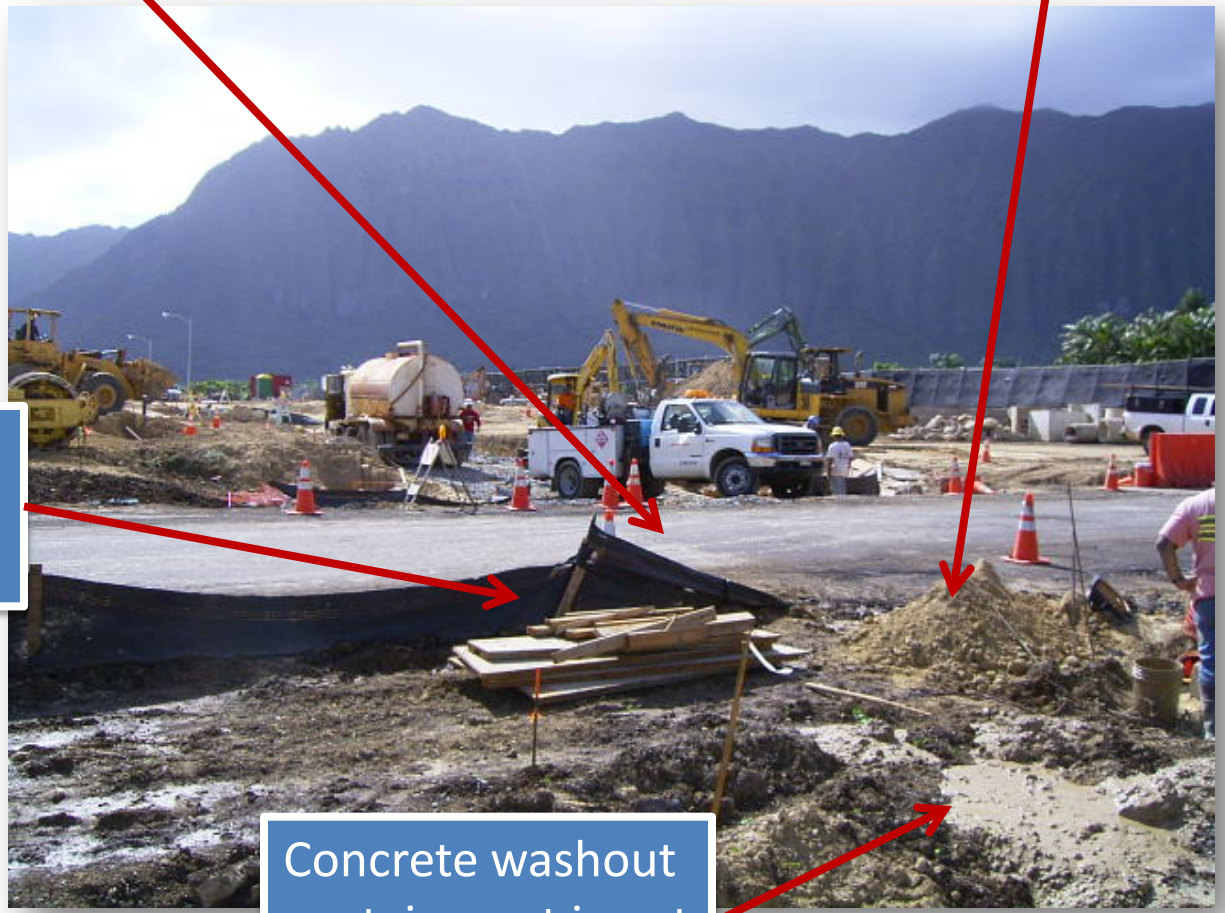
Solid Waste Management (WM-5)

- Remove debris from site.
- Place in watertight dumpster.
- Dispose of dumpster contents biweekly or more frequently as needed.
- Locate dumpster 50 ft from waterways.
- Store construction materials neatly.
- Segregate hazardous wastes and recyclable items.

Find the Deficiencies

Track out on the road.

Stockpile is not contained.



Silt fence is not properly installed or maintained.

Concrete washout containment is not sufficient.

Finishing the Inspection

- Complete the Construction Inspection Checklist.
- Verbally notify contractor of deficiencies that must be addressed.
- Coordinate follow-up actions.
  - Timeline to re-inspection.
  - Email photos of corrective actions.
  - Other.

Deficiency Documentation

- Recordkeeping is vital.
  - “If it wasn’t recorded, it didn’t happen.”
- Describe deficiencies in the checklist.
- Photograph deficiency and surrounding location.
- When verbally describing deficiencies to contractor, you can also provide suggestions.
  - If contractor disagrees, remain professional. Don’t argue back or escalate.
  - Leave the site and send formal letter with documentation.

Back in the Office

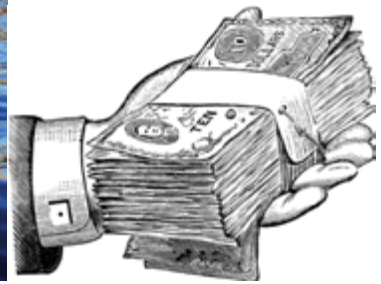
- Finish and sign inspection report ASAP.
- Scan into the computer.
- Attach and describe photographs.
- Attach a map of photo locations, if necessary.
- Send report to CM/PM, Environmental Section (EE), and contractor.
  - EE will keep inspection record in database.
- Make a note in calendar to ensure follow-up is completed.

SWMP Enforcement

- Required when corrective actions are not immediately initiated by contractor.
- Conducted by Harbors Qualified Inspector with internal enforcement authority.
- Regulations that will be referenced:
  - SWMP.
  - Construction Contract.
  - HRS Title 15, Chapter 266.
  - HAR Title 19, Chapters 41 to 44.

SWMP Enforcement Process

- Upon discovery, contractor will immediately correct deficiency.
- Escalating enforcement, as required:
  - Verbal warnings – CM.
  - Written warnings.
    - Inspection report – CM.
    - Formal letter – CM.
    - Notice of Apparent Violation (NAV) – CM / HAR-EE.
      - Notification provided to Department of Health.
  - Stop work orders - CM.
    - Withholding of contractor payment.
  - Summons or citations - AG.
- Documentation is key!



EPA Enforcement

- Administrative Penalties:
  - Class I Violation: Up to $10,000 per violation (maximum $25,000).
  - Class II Violation: Up to $10,000 per day per violation (maximum of $125,000).
- Criminal Penalties:
  - Negligent Violations: Up to $2,500 - $25,000 per day (1 yr prison).
  - Knowing Violation: Up to $5,000 - $50,000 per day (3 yrs prison).
  - Knowing Endangerment: $250,000 (15 yrs prison) for an individual. $1 million or an organization.
- False Statements: $10,000 (6 months prison).

Take Away

- All projects must be reviewed prior to start.
- Projects over 1 acre must include post-construction BMPs.
- Inspections are required by Consent Decree and NPDES permits.
- Main goal is to ensure that pollutants are not contaminating receiving waters or MS4.
  - Best if potential pollutants can be kept on-site!
- It is cheaper to implement BMPs than pay the regulatory fine.
- **Be familiar with City and County of Honolulu BMP manual, Harbor's SWMP programs, Consent Decree, and construction documents.**
- Inspections are an important tool to catch problems before they result in regulatory enforcement.

Questions

- Harbor's Website: http://hidot.hawaii.gov/harbors/library/storm-water-management/.
  - Most recent documents available on O:Drive.
- Harbor's Contacts:
  - Stormwater Reporting Hotline: 587-1962.
  - Randal Leong, PE: 587-1962, randal.leong@hawaii.gov.
  - Joy Zhang: 587-1960, ying.j.zhang@hawaii.gov.
  - Jim Galariada, CSP: jim.st.galariada@hawaii.gov.

Training Survey

Take the next 15 minutes to complete your survey.

Question 1

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

Question 2

2. A construction project must obtain an NPDES when disturbing less than 1 acre of land.
   a. True.
   b. False.

Question 3

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

Question 4

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

Question 5

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

Question 6

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

Question 7

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors structures.

Question 8

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

Question 9

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable paver.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

Question 10

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMPP conducted in the month of May?

a. Every two weeks.

b. Weekly.

c. Every two months.

d. Annually.

Question 11

11. Which of the following documents must be kept on a construction site?

a. NPDES permit.

b. Self-inspection reports.

c. Updated Stormwater Pollution Prevention Plan .

d. All of the above.

Question 12

12. A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.
    a. True.
    b. False.

Question 13

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

Question 14

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

Question 15

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

Question 16

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

Question 17

17. Enforcement actions can include stopping work and withholding payment.
    a. True.
    b. False.

HDOT Harbors Construction Inspector Training Sign-in Sheet

(This training covers HDOT Harbors small MS4 program and HDOH NOI-C training requirements)

- March 31, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Ying "Joy" Zhang	HDOT Harbors	ying.j.zhang@hawaii.gov	587-1960	YZ
2	Nami Wong	DOT-Harbors	nami.jh.wong@hawaii.gov	586-2525	[illegible]
3	SHARILYN IKEDA	DOT HARBORS	sharilyn.s.ikeda@hawaii.gov	587-2458	[illegible]
4	SHAWN RYAN	WATTS CONSTRUCTORS	shawn.ryan@watts-con.com	271-9109	[illegible]
5	HILARION VISAYA	WATTS	99-112 BAKER ST AIEA	389 8224	[illegible]
6	ANDY CHAN	DOT- HARBORS	andy.chan@hawaii.gov	587-1867	[illegible]
7	+ALAN LEE	AECOM (CM KMR)	alanlee@lava.net	225-2651	[illegible]
8					
9	+ Request E-mail Hand-outs				
10	Candido Alvarado	WATTS		382-8264	[illegible]
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors Construction Inspector Training Sign-in Sheet

(This training covers HDOT Harbors small MS4 program and HDOH NOI-C training requirements)

- March 31, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Ryan m	DOT-HAR	ryan.s.morita@hawaii.gov	586-3046	
2	Julie Hro	SSFM International	jhro@ssfm.com	219-743-1602	JH
3	Neil Asato	~~HA~~ DOT-HAR-EC	neil.m.asato@hawaii.gov	587-1868	NA
4	Joe Cheng	DOT-HAR-EC	joe.cheng@hawaii.gov	587-1869	JC
5	Derek Koki	AECOM	DEREK.KOKI@AECOM	3496831	DK
6	Rodney Yamaki	DOT HAR-EC	RODNEY.K.YAMAKI@HAWAII.GOV	5871869	RY
7	Charles Miller	SSFM International	CMILLER@SSFM.COM	232.4976	CM
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors Construction Inspector Training Sign-in Sheet

(This training covers HDOT Harbors small MS4 program and HDOH NOI-C training requirements)

- March 31, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Dung Vo	DOT-HAR	Dung.P.Vo@hawaii.gov	586-2460	DV
2	KEVIN COLE	YOGI KWONG ENGINEERS	KEVIN@YOGIKWONG.com	(209) 988-7016	KC
3	Hadley Hale	CLOSE CONSTRUCTION	hadley@closeconstruction.com	808 469-0023	HH
4	Buddy Teixeira	Close Construction	buddy@closeconstruction.com	222-3677	[illegible]
5	WILLIAM MAKANUI	YOGI KWONG ENGINEERS, LLC	wmakanui@yogikwong.com	638-1354	[illegible]
6	RICHARD YONEDA	DOT HAR-EC	richard.yoneda@hawaii.gov	5071866	[illegible]
7	DEAN Y NAKAKURA	WATTS CONSTRUCTORS	DEAN.NAKAKURA@WATTS-CON.COM	2716378	DN
8	MATT MASTERSON	WATTS	Matt.masterson@watts-con.com	392-9408	[illegible]
9	John Fackrell	Watts	john.fackrell@watts-con.com	291 7453	[illegible]
10	[illegible]	WATTS		691-0665	
11	Lauren Young	DOT-HAR-EC	lauren.m.t.young@hawaii.gov	587-1870	LY
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors small MS4 Stormwater Training Sign-in Sheet

(This training covers HDOT Harbors Construction and Post-Construction programs and HDOH NOI-C training requirements)

Date: 9/23/14 Time: 1400

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Lisa Baxter	EnviroServices & Training Center	Lbaxter@gofoe.com	(808)839-7200 ext 236	LB
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors small MS4 Stormwater Training Sign-in Sheet

(This training covers HDOT Harbors Construction and Post-Construction programs and HDOH NOI-C training requirements)

- May 22, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	WADE TAKAMOTO	DOT-HAR	wade.takamoto@hawaii.gov	587-1959	[illegible]
2	SHARILYN IKEDA	DOT HAR	sharilyn.s.ikeda@hawaii.gov	586-2458	[illegible]
3	Hadley Hale	Close Construction	hadley@closeconstruction.com		HH
4	ARNOLD FUKUMOTO	DOT-HAR	arnold.fukumoto@hawaii.gov	587-1878	[illegible]
5	BRANDEN SUMIDA	"	branden.sumida@hawaii.gov	587-1873	[illegible]
6	Lisa Powell	DOT-HAR	Lisa.R.Powell@hawaii.gov	587-1875	[illegible]
7	Kim Kido	DOT-HAR	Kimberly.A.Kido@hawaii.gov	587 1884	[illegible]
8	XiPing Huang	DOT-HAR	xiping.huang@hawaii.gov	587-1887	[illegible]
9	KRIS MAILE	HAWAIIAN DREDGING	kmaile@hdcc.com	690-1431	KM
10	MATTHEW YAP	HDCC	MYAP@HDCC.COM	630-7178	MY
11	Gregg Hirokawa	DOT-HAR	gregg.hirokawa@hawaii.gov	587-1985	gh
12	Steve Dale	DOT-H	steven.r.dale@hawaii.gov	587-2495	[illegible]
13	WAYLEN MIYASHIRO	RM TOWILL	waylenm@rmtowill.com	842-1133	WM
14	Ryan Morita	HDOT	ryan.s.morita@hawaii.gov	586-3046	[illegible]
15	Jonathan Yee	"	jonathan.sw.yee@hawaii.gov	587 1956	[illegible]
16					
17					
18					
19					
20					

HDOT Harbors small MS4 Stormwater Training Sign-in Sheet

(This training covers HDOT Harbors Construction and Post-Construction programs and HDOH NOI-C training requirements)

- May 22, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Carter Luke	DOT Harbors Div	carter.luke@hawaii.gov	587-1862	[illegible]
2	RANDY HIRAKI	" " "	RANDAL.HIRAKI@HAWAII.GOV	587-1958	[illegible]
3	Rose Gutowski	Enviroservices	rgutowski@gotoetc.com	839-7222	RG.
4	DEAN KOKUBUN	MOFFATT & NICHOL	DKokubun@MoffattNichol.com	(808) 533.7000	[illegible]
5	DEAN WATASE	DOT HARBORS	dean.watase@hawaii.gov	587.1883	[illegible]
6	Arnold Liu	" "	arnold.liu@hawaii.gov	587-1888	[illegible]
7	Bert Toba	DOT Harbors	bert.r.toba@hawaii.gov	586-2455	[illegible]
8	Kim Kido	" "	kimberly.a.kido@hawaii.gov	587 1884	[illegible]
9	Xiping Huang	DOT Harbors	xiping.huang@hawaii.gov	857-1887	[illegible]
10	RANDAL LEONG	DOT HARB	randal.leong@hawaii.gov	587 1962	[illegible]
11	Ying "Joy" Zhang	"	ying.j.zhang@hawaii.gov	587-1960	[illegible]
12					
13					
14					
15					
16					
17					
18					
19					
20					

HDOT Harbors small MS4 Stormwater Training Sign-in Sheet

(This training covers HDOT Harbors Construction and Post-Construction programs and HDOH NOI-C training requirements)

- May 22, 2014 (1300)

No.	Name	Organization	E-mail Address	Phone #	Initials
1	Francis Ahern	Hawaii Harbors Constructors Healy Tibbitts Builders	FKAhern@Healytibbitts.com	673-0120	FKTA
2	Cristian Caicedo	Hawaii Harbors Constructors	crcaicedo@healytibbitts.com	630-0179	CCU
3	KYLE OGATA	" " "	krogata@healytibbitts.com	227-2572	KRO
4	Rhandi Ardona	Close Construction	rhandi@closeconstruction.com	678-9493	RA
5	MATT MOORE	ENVIROSERVICES	mmoore@gotoetc.com	839-7222	MM
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Construction Inspector Training Survey

3/31/2014

Total Surveys Taken 20

Question #	Number Wrong	Percent Correct
1	0	100%
2	1	95%
3	1	95%
4	0	100%
5	0	100%
6	2	90%
7	4	80%
8	3	85%
9	1	95%
10	4	80%
11	1	95%
12	0	100%
13	4	80%
14	2	90%
15	7	65%
	Overall	90%

Average 88%

5/22/2014

27

Question #	Number Wrong	Percent Correct
1	0	100%
2	0	100%
3	2	90%
4	6	70%
5	6	70%
6	3	85%
7	0	100%
8	3	85%
9	2	90%
10	16	20%
11	2	90%
12	1	95%
13	3	85%
14	0	100%
15	4	80%
16	2	90%
17	1	95%
	Overall	85%

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
    a. Grass cuttings.
    b. Trash.
    c. Sediment.
    d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
    a. Moving of soil.
    b. Resurfacing of pavement where the ground is exposed.
    c. Grubbing.
    d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
    a. Only projects over 1 acre.
    b. All projects that meet the DOT Harbor's definition of construction.
    c. Only projects that occur in a surface water body.
    d. None of the above.

5. Construction activity BMPs are designed to:
    a. To anger the CM or PM.
    b. To reduce the detrimental impact of pollutants caused by construction activities.
    c. To delay construction.
    d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
    a. Silt fence.
    b. Compost berms.
    c. Hard surface guard.
    d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
    a. Permeable pavement.
    b. Concrete washout.
    c. Drip pan.
    d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments: Good job!! (:)

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 31MAR14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:
Define Stockpile

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/2014

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3-31-14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. F

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. T

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection. T

Comments:

2014 DOT Harbors Construction Training Survey

Date: 3-31-14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. Can use different types.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

2014 DOT Harbors Construction Training Survey

Date: 3/3/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout:
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 8/21/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3-31-14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3-31-2014

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. False

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 03/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 3/31/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. False

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. True

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection. True

Comments:

2014 DOT Harbors Construction Training Survey

Date: 3/31/2014

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
    a. City and County of Honolulu BMP manual.
    b. DOT Harbor's Storm Water Management Plan.
    c. None of the above.
    d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

100%

2014 DOT Harbors Construction Training Survey

Date: 9/29/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True ~~or False:~~ A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

6. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

7. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

8. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
   a. Every two weeks.
   b. Weekly.
   c. Every two months.
   d. Annually.

9. Which of the following documents must be kept on a construction site?
   a. NPDES permit.
   b. Self-inspection reports.
   c. Updated site-specific BMP plan.
   d. All of the above.

10. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

11. When is maintenance required on most sediment control BMPs?
   a. When sediment reaches 1/3 height of the barrier.
   b. When there is any sediment accumulation.
   c. When sediment reaches 1/2 height of the barrier.
   d. Maintenance is not required.

12. Which of the following items should be taken to a construction site inspection?
   a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
   b. Camera.
   c. Construction inspection checklist.
   d. All of the above.

13. At what level must a contractor stop adding waste to the concrete washout?
   a. 100%
   b. 75%
   c. 50%
   d. 99.9%

14. Which of the following references describes installation and maintenance requirements for common BMPs?
   a. City and County of Honolulu BMP manual.
   b. DOT Harbor's Storm Water Management Plan.
   c. None of the above.
   d. A & B.

15. True or False: Enforcement actions are initiated when a deficiency is identified during an inspection.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: DEAN KOKUBUN

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 05/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5.22.14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. F

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing. ?
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above. ?

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above. ?

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP. ?

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

OCT – APR? 2weeks
MAY – SEP? 2mo?

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

Excellent Class

2014 DOT Harbors Construction Training Survey

Date: 05/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:
Thank you for the informative presentation

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. FALSE

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.
   T

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. T

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment. T

Comments:

If possible make the slide show available.

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. FALSE

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP. TRUE

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: ~~2014~~ May 22, 2014

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.
   False

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.
   False

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. False

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment. True

Comments:

2014 DOT Harbors Construction Training Survey

Date: 5-22-14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. F

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: May 23, 2014 Rose Gutowski

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP. True

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. unless the 1 ac parcel is part of a larger project or bpd pkg.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

thank you.

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land. F

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.
   T

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter. T

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.
    T

Comments:

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: 5/22/14

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2014 DOT Harbors Construction Training Survey

Date: _____

1. What is the main potential pollutant resulting from construction activities?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. None of the above.

2. True or False: A construction project must obtain an NPDES when disturbing less than 1 acre of land.

3. Which of the following is considered land disturbance?
   a. Moving of soil.
   b. Resurfacing of pavement where the ground is exposed.
   c. Grubbing.
   d. All of the above.

4. Which of the following projects must be reviewed by DOT Harbors for compliance with environmental regulations and programs?
   a. Only projects over 1 acre.
   b. All projects that meet the DOT Harbor's definition of construction.
   c. Only projects that occur in a surface water body.
   d. None of the above.

5. Which of the following projects are exempt from post-construction BMPs?
   a. Projects less than 1 acre.
   b. Re-roofing projects.
   c. Interior projects.
   d. All of the above.

6. True or False: Projects requiring post-construction BMPs must submit both a post-construction BMP checklist and PSMP.

7. Construction activity BMPs are designed to:
   a. To anger the CM or PM.
   b. To reduce the detrimental impact of pollutants caused by construction activities.
   c. To delay construction.
   d. To stop any improvements to DOT Harbors facilities.

8. Which of the following is a sediment control BMP?
   a. Silt fence.
   b. Compost berms.
   c. Hard surface guard.
   d. All of the above.

9. Which of the following is an example of a permanent or post-construction BMP?
   a. Permeable pavement.
   b. Concrete washout.
   c. Drip pan.
   d. None of the above.

10. How frequently are inspections required by the Consent Decree and DOT Harbor's SWMP conducted in the month of May?
    a. Every two weeks.
    b. Weekly.
    c. Every two months.
    d. Annually.

11. Which of the following documents must be kept on a construction site?
    a. NPDES permit.
    b. Self-inspection reports.
    c. Updated site-specific BMP plan.
    d. All of the above.

12. True or False: A stabilized construction entrance must have stone that is 3 to 6 inches in diameter.

13. When is maintenance required on most sediment control BMPs?
    a. When sediment reaches 1/3 height of the barrier.
    b. When there is any sediment accumulation.
    c. When sediment reaches 1/2 height of the barrier.
    d. Maintenance is not required.

14. Which of the following items should be taken to a construction site inspection?
    a. PPE: steel toed boots, hard hat, safety glasses, safety vest.
    b. Camera.
    c. Construction inspection checklist.
    d. All of the above.

15. At what level must a contractor stop adding waste to the concrete washout?
    a. 100%
    b. 75%
    c. 50%
    d. 99.9%

16. Which of the following are important references to comply with the construction and post-construction requirements at DOT Harbors?
    a. City and County of Honolulu BMP manual for Construction.
    b. City and County of Honolulu Rules Relating to Storm Drainage Standards.
    c. DOT Harbor's Storm Water Management Plan.
    d. All of the above.

17. True or False: Enforcement actions can include stopping work and withholding payment.

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Attachment 13. Maintenance Worker Training

a. Presentation
b. Summary of Training
c. Sign-In Sheets and Surveys

Environmental Management System

State of Hawaii, Department of Transportation, Harbors Division

Agenda

- Introduction
- Reason for Enhanced Environmental Program
- Overview of Environmental Management System
- Aspects and Impacts
- Operational Controls
- *Video Break – Storm Water Runoff " I Can Make A Difference"*
- BMP Flyers
- *Video Break – Pollution Prevention "Reducing Waste In The Workplace"*
- *Video Break – Universal Waste "Bulbs Batts Bugs Barometers"*
- Survey

Administration

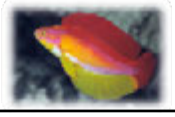
- Emergency Assembly Location.
- Bathroom Location.
- Silence cell phones / radios.
  - Please step outside to take a call.
- Please feel free to ask questions at any time!

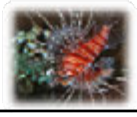
"I appreciate the text, Kate, but next time you can just raise your hand."

Introduction: Why should we protect the environment?

- To be good stewards of the environment.

  - For our own use.
  - For the local economy (i.e. tourism, fishing).
  - To protect the environment.
    - Coral reefs are sensitive to pollution.
    - Endemic species (found only in Hawaii).





Introduction: Why should we protect the environment?

- To conform with Harbor's policies.
  - Director of Transportation's policy.
  - Operational controls.
  - Facility plans such as the EMS Manual.
- To comply with environmental laws.

Environmental Protection Agency
- Code of Federal Regulations.

State of Hawaii Department of Health
- Hawaii Revised Statutes.
- Hawaii Administrative Rules.

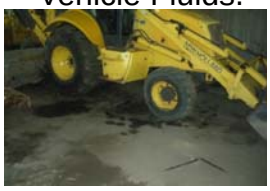
Department of Transportation, Harbors Division
- Consent Decree(s).

Stormwater Discharges

- Stormwater carries pollutants generated during outside activities to the nearest storm drains or waterways.
- Stormwater is **not** treated before it is discharged to the ocean.
- It is vital to control pollutant sources **before** they are discharged in order to protect the harbor.

Common Pollutants

Vehicle Fluids.



Aggregate.

Trash.

Chemicals.

Grass Clippings.

Detergents.

Stormwater Impacts

- Sediment: Even dirt is a pollutant when discharged!

- Chemicals: Oil spills.

Stormwater Impacts

- Trash: Great Pacific Garbage Patch

Best Management Practices

- What is a BMP?
  - Structural device or system.
  - Operational or procedural practice.
  - Overall goal: reduce or eliminate the discharge of potential pollutants generated during daily activities.

- Where are BMPs found?
  - DOT Harbors SWMP and flyers.
    http://hidot.hawaii.gov/harbors/library/storm-water-management/
  - Environmental Protection Agency BMP Menu.
    http://cfpub.epa.gov/npdes/stormwater//menuofbmps.

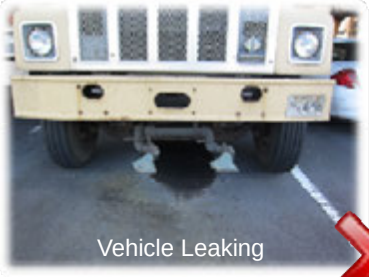
Common BMPs

- Implement good housekeeping practices:
  - Sweep up outside areas to remove debris / grass cuttings / accumulated dirt.
  - Cover dumpsters.
  - Storm drains are clean.

- Store materials properly:
  - In a covered area, closed, and labeled.
  - In secondary containment for liquids and batteries.
  - Contain stockpiles.

Common BMPs

- Vehicle maintenance:
  - Conduct maintenance activities in a covered area.
  - Use drip pans for leaking vehicles.
    - Ensure properly positioned, anchored, and maintained.



Further BMPs will be described in more detail later in the presentation.

What is EMS?

- The Environmental Management System (EMS) is a tool to:
  - Manage environmental impacts.
  - Improve environmental performance.
  - Comply with applicable environmental laws.
- EMS allows Harbors to be *Proactive* versus *Reactive*.
- EMS is required by Consent Decree.
  - ISO 14001 is the international standard which serves as the framework for the program.

Environmental Policy

- All Harbors facility users must be aware of the environmental policy!
  - http://hidot.hawaii.gov/airports/doing-business/engineering/environmental/
  - Post it in your operational areas.

Glenn M. Okimoto, Ph.D.
Director of Transportation

- Main points in the policy:
  1) Continual improvement.
  2) Obey laws.
  3) Prevent Pollution.

Evaluating Activities

- Every activity has a potential impact on the environment.
- Consider activities conducted to complete work tasks.
- Consider the "aspect."
  - How will this task interact with the environment?
- Consider the "impact."
  - What impact will that interaction have?

Aspects and Impacts

Examples of Aspects & Impacts

Activity	Aspect	Impact
Cleaning painting equipment	Release of solvent or paint washwater	Contamination of soil, groundwater, or storm water
Landscape maintenance – vegetation removal	Generation of green waste	Contamination of storm water
Vehicle fueling	Release of gasoline or diesel from dispenser or vehicle	Contamination of soil, groundwater, or storm water

- Full list prepared by Division EMS Coordinator and District Manager.
- Significant aspects and impacts will be those with the greatest impact on the environment.
  1. Spills of pesticide and herbicide.
  2. Spills of universal waste.
  3. Discharge of universal waste contaminants in storm water runoff.

Objectives and Targets

- Required for each identified significant aspect.
- Objective is an environmental goal.
- Target is a steps required to meet that goal.
- Must be measurable!

Examples of Objectives & Targets

Objective	Target(s)
Reduce the impact of spills to the environment.	• Train all spill response personnel by December 2014. • Respond to spills in accordance with SPCC and/or SWMP within 15 minutes by December 2015.
Reduce usage of hazardous chemicals.	• Reduce use of high-VOC paints by 25% by January 2015. • Increase use of biodegradable solvents by 15% by January 2015.

Compliance Checklists

- Covered topics:
  - Emergency Planning and Community Right to Know.
  - Facility Safety Management.
  - Solid & Hazardous Waste Management.
  - Stormwater and Spill Contingency Management.
  - Underground Storage Tank (UST) Management.
- Complete at least **annually**.
  - Document noncompliance on the proper form.
    - Division EMS Coordinator will notify regulatory agency.
    - District Manager must ensure items **are corrected within 21 days**.

Harbors Employees Responsibilities

- Understand the environmental policy.
- Attend the appropriate training.
- Report environmental incidents or problems to supervisors.
- Implement environmental practices and procedures.
  - Best management practices (BMPs).
  - Waste management procedures.
  - Oil storage procedures.

Operational Controls

- Required for significant aspects.
- Technology and administrative procedures applied to prevent adverse environmental impacts.
- IMPORTANT: Ensure you are familiar with operational controls involving your work activities!

Operational Control

HERBICIDE AND PESTICIDE APPLICATION

Herbicide and Pesticide Application

- Follow manufacturer's instructions, federal and state regulations (read the label).
- Use the least toxic chemical to accomplish the task.
- Only mix chemicals in sufficient quantities for the task.
  - Excess mixed chemicals should be stored per manufacturer's instructions.
- Spot spray rather than broadcasting or using the spray truck, where feasible.

Herbicide and Pesticide Application

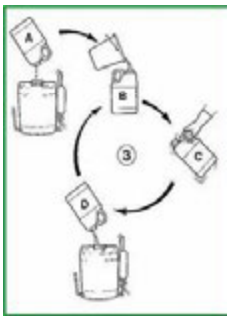
- Never apply near surface water or storm drain.
- Never apply before a forecasted rain event.
- Do not spray chemicals during high winds (over 8 miles per hours).

Herbicide and Pesticide Application

- All containers are closed and labeled.
- Store within secondary containment.
- Ensure area is enclosed or covered.
- Keep inventory and SDS for all products.

Herbicide and Pesticide Application

- Disposal:
  - Use as much of the product as possible.
  - Rinse empty chemical containers three (3) times.
  - Reuse rinse water.
    - Do not dispose of rinse water in a storm drains or sanitary sewer.



Operational Control

AEROSOL CANS

Regulation

- Regulations may include those for hazardous materials and/or hazardous wastes depending on the product.
- Review Safety Data Sheets prior to purchasing product.

Using solvent containing constituents like toluene, acetone, methyl ethyl ketone, 1,1,1-trichloroethane, etc., may generate hazardous waste rags!

Using Aerosols

- Substitute with other products.
  - Example: compounds that can be applied with a brush.
- Maintain the least amount necessary for work.
- Completely empty a container before getting a new one.

Storing Aerosols

- All aerosols should be put in a flammable storage cabinet at the end of the day.
  - Cans that must be kept in vehicles should be put in a storage cabinet on the vehicle.
    - Do NOT leave can in the bed of the truck or in driver's compartment!
    - Keep all Safety Data Sheets.

Aerosol Can Disposal

- Use the entire can until product can no longer be sprayed out.
  - Dispose of can as solid waste or scrap metal.
- If an aerosol becomes obsolete:
  - Place in puncturing device.
  - Empty liquid into drum or other watertight container and label as "hazardous waste."
  - Dispose of can as solid waste or scrap metal.

Operational Control

UNIVERSAL WASTES

Kinds of Universal Waste

- Batteries

- Mercury-containing equipment

- Certain Pesticides

- Lamps

Managing Universal Waste

- Mark *each* UW or *each* closed UW container:
  - BATTERIES: Turn in vehicle lead acid batteries. Do not accumulate.
  - FLUORESCENT LAMPS: "Universal Waste Lamps."
- Mark Accumulation Start Date (ASD).
- Ensure shipped for recycling / disposal ***within 1 year.***

Universal Waste - Lamps

- Manage compact fluorescents with silver tips as universal waste:
  - Accumulate in a secure area.
  - Containerize in the original manufacturer's container or similar.
  - Label appropriately.
- Ensure that silver tips are replaced with green tip lamps.

Note: Broken lamps must be handled as a hazardous waste.

Universal Waste Recordkeeping

- Harbors policy is to keep records:
  - Shipping papers.
  - Invoices.
  - Disposal verification.
- Ensure disposal is arranged prior to the 1 year accumulation deadline.

Operational Control

OIL SPILL RESPONSE

Initial Spill Response

What should you do?

Initial Spill Response

- Immediately:
  - Notify the Supervisor or Emergency Coordinator.
  - Call emergency for injuries or threat of fire – 911.
  - Evacuate the area of non-essential personnel.
  - Determine spill severity.

Initial Spill Response

- Only ***if Safe***:
  - ❑ Remove ignition sources and turn off power.
  - ❑ Improve ventilation.
  - ❑ Stop the spill flow and contain spill.
  - ❑ Use spill kit with gloves, bags, berms, absorbent pads, and/or clay granules.
  - ❑ Keep the spill from spreading.

Personal safety and the safety of others is ***always*** the first consideration!!!

Major Spills

- A major spill is:
  - **> 25 gallons** of oil.
  - Anything beyond the capacity of personnel to safely recover.
- ❑ Contact a spill response contractor.
- ❑ Ensure that all other people are evacuated by pulling the fire alarm.
- ❑ Keep the telephone lines clear for emergency purposes.
- ❑ Ensure that access to the spill area is provided to emergency responders.
- ❑ Do not re-enter the spill area until given the "all clear."

Minor Spills

- A minor spill is:
  - < 25 gallons of oil on impermeable surface.
  - Readily recoverable with available materials.
  - Would not cause harm to personnel, the environment, or property.

Minor Spill Response

- First access the nearest spill response kit:
  - Don the proper PPE (gloves, boots, etc.)
- Cover or block nearby drains or waterways.
- Contain the spill perimeter.
- Cover the remaining spill with absorbent.
  - If raining, using the oil-only pads / pillows.

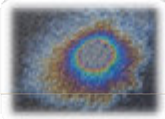
Minor Spill Response

- Scoop or sweep spent absorbent material with non-sparking shovel or broom.*
- Place the spent absorbent into a double plastic bag.
- Close the bags and seal with tape.
- Dispose of bag as solid waste.

*If spill occurs on soil, contact spill response contractor to dig up affected area immediately.

Notifications

- Required for:
  - Any major spill (≥ 25 gallons of oil).
  - Any spill not cleaned within **72 hours**.
  - Any spill that enters a waterbody (harbor, ditch, storm drain, etc.):
    - **Any amount** (including a sheen)!



- Conducted by Supervisor or most senior person present.
- Document notifications made.

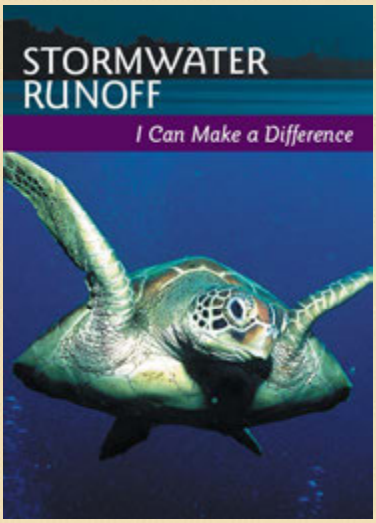
Notifications

- Immediately call (within 20 min):
  - National Response Center: 800-424-8802.
  - DOH HEER Office: 808-586-4249.
  - LEPC (Maui Fire Department): 808-270-7911.
- Within 30 days, provide a written report.
- Provide the following information:
  - Contact information.
  - Location, date, time, and what caused spill.
  - Actions taken in response to spills.
  - Other notifications made.

After-Action Review

- Determine cause of spill.
- Determine how it can be prevented in the future.
- Emphasize preventative maintenance.
- Restock spill kits.
- Provide copy of all records to HAR-EE.

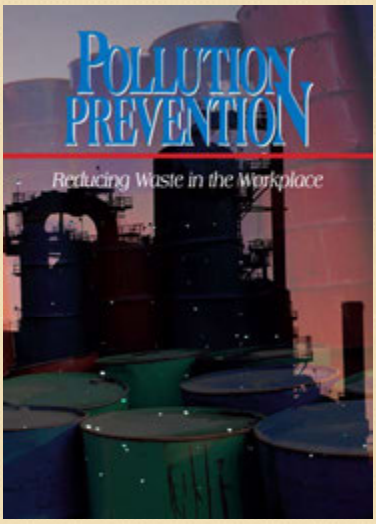
VIDEO BREAK!



BMP Flyers

- Available online at: http://hidot.hawaii.gov/harbors/library/storm-water-management/
- Quick reference to ensure operations are conducted appropriately.

VIDEO BREAK!



VIDEO BREAK!

Take Aways

- EMS Policy.
  - Commitment to continual improvement.
  - Obey all environmental laws.
  - Prevent pollution.
- Significant Aspects.
- Operational Controls.

Questions?

Please complete this educational survey and present to the trainer for recordkeeping purposes.

	Attended Training	Q1	Q	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Correct Score
Hawaii District												
Hilo Baseyard												
Dave Aina	Yes											
Curtis Badua	Yes											
Clyde Aina	Yes											
Dayton Acosiba	Yes	Survey results are not available for this group.										
Micheal Augustine	Yes											
Gene Ishibashi	Yes											
Marissa Bondaug	Yes											
Kawaihae Baseyard												
Nathan Ortega	Yes											
Michael Augustin	Yes											
Gene Ishibashi	Yes											
Randal Leong	Yes	This group took the survey that was distributed by email on 18 July 14.										
Jeff Hood	Yes											
Debbie Kuntz	Yes											
Greer McKeen	Yes											
Kauai District												
4/10/014												
Bob Crowell	Yes	1		1	1	1	1	1		1	1	8
Robert Cecconi	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Annabelle Clark	Yes											
Iris Craig	Yes	1	1	1	1	1		1		1	1	**8**
Robert McNaught	No											
Kelly Arakaki	No											
Wesley Kawamoto	Yes	1	1	1	1	1	1	1		1	1	**9**
Larry Okamoto	No											
Kenneth Meatoga	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Corey Romero	No											
Gerald Rapozo	Yes	1	1	1		1	1	1		1	1	**8**
William Rodrigues	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Judson Ventar	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Dwight Yama	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Gaivin Alao												
Wendell Kam												
Maui District												
4/10/014												
Harold Brittain	No											
Donovan Canite	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Clayton Delos Santos	Yes	1	1	1		1		1	1	1	1	**10**
Peter Diego	Yes	1	1	1		1	1	1		1	1	**8**
Jason Gonsales	No	0	0	0	0	0	0	0	0	0	0	
Robert Idemoto	Yes	1	1	1	1	1	1	1		1	1	**9**
Louis Nobriga	Yes	**1**	1	1	1	1	1	1	1	1	1	**10**
Gilbert Pacheco Jr.	Yes	1		1				1	1	1	1	**6**
Broson Gumtang	Yes	**1**	1	1	1	1	1	1		1	1	**9**
Dennis Rodrigues Jr.	Yes	1	1	1	1	1	1	1	1		1	**9**
Marshall Sacapanio-Baisa	Yes	1	1	1	1	1	1	1	1	1	1	**10**
David Tavares	Yes	1	1	1	1	1	1	1	1	1	1	**10**
4/11/014												

Marshall Sacapanio-Baisa	Yes	
Robert Idemoto	Yes	This additional training was presented at the request of the Maui District Manager. No Survey was presented.
David Tavares	Yes	
Broson Gumtang	Yes	
Duane Kim	Yes	

										Total Correct Score	
Honolulu District Mixed Class 11/5/014											
Walter Aguinaldo (HAR-OCG)	Yes	1	1	1	1	1	1	1		**7**	**8**
Fred Bautista (HAR-OCG)	Yes	1	1	1	1	1	1	1		**7**	**8**
Rafael Inso (HAR-OCO)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
John DeJesus (HAR-O)	Yes	1	1	1	1	1		1		**6**	**7**
Bob Bee (HAR-OCM; OC8)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Robert McLean (HAR-OCG)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Sandra Nihi (HAR-OCG)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jim Galariada HAR-EE)	Yes										**0**
HAR-OM											
Ronald Kapuniai	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Clyde Nishigata	Yes	1	1	1	1	1	1	1		**7**	**8**
HAR-OCG 11/6/014											
Kenneth Zane	Yes	Survey results not available for this individual.									
Michael Milles	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jerome Radona	Yes		1	1	1	1	1	1	1	**7**	**8**
Rosie Jo Kapanui-Sula	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nestor Sagayadoro	Yes	1	1	1		1	1		1	**6**	**7**
Wendell Kahaleoumi	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Anthony Dela Cruz	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Kenneth Zane	Yes	1	1	1		1		1	1	**6**	**7**
Richard Carvalho	Yes	1	1	1		1	1	1	1	**7**	**8**
John Liftee	Yes	1	1	1		1	1	1	1	**7**	**8**
Chilltin Apana (89-day hire)	Yes	1	1	1		1	1	1	1	**7**	**8**
Alice Vangelder	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCM 11/6/014											
Mark Hashiro (OC5)	Yes	1	1	1		1	1	1	1	**7**	**8**
HAR-OM 11/1/014											
Elmer Hirono	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Reginald Tanaka-Kawaakoa	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Keith Chikamori	Yes	1	1	1		1		1		**5**	**6**
Patrict Santos	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nelson Kaloa	Yes	1	1	1	1	1	1	1		**7**	**8**
Clifford Ontai	Yes	1	1	1	1	1	1	1		**7**	**8**
Clayton Niibu	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Dean Ibana	Yes	1	1	1	1	1	1	1	1	**8**	**9**

David Markle	Yes	1	1	1	1	1	1	1		**7**	**8**
Layne Sunada	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Keoni Araki	Yes	1	1	1	1	1	1	1		**7**	**8**
Don Minoda	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Aurelio Preza	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Michael Felix	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Leeann Kaili	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Alan Jichaku	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jon McKee	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Peter Pruski	Yes		1	1		1	1	1	1	**6**	**7**
Raymond Saito	Yes	1	1	1	1	1		1	1	**7**	**8**
Jason Nishigata	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Derek Buendia	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jeffrey Mun	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Myles Umeda	Yes	1	1	1	1	1	1	1		**7**	**8**
Mario Argones	Yes	1	1		1	1	1	1	1	**7**	**8**
Semala Maulupe	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Robert Gayer	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Albert Castro Jr.	Yes	1	1	1		1	1	1	1	**7**	**8**
HAR-OCM 11/1/014											
Billy Lee (OC6)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCG 11/1/014											
Nestor Guron	Yes			1			1	1		**3**	**4**
HAR-OCB 11/1/014											
Calvin Woo	Yes	1		1	1	1	1	1	1	**7**	**8**
HAR-OCG 11/13/014											
Gregory Gomes	Yes	1	1	1	1	1		1		**6**	**7**
Antonio Rivera	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Vandy Sibounheuang	Yes	1		1	1	1	1	1	1	**7**	**8**
Ciriaco Valeriano	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Norma Agmata	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Roy Matautia	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Marcelo Gabonia	Yes	1	1	1		1	1	1	1	**7**	**8**
Paul Shimizu	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Mike Winfield	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Semala Maulupe	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nelson Boyce	No										
Christopher Savea	No										
Leeann Kaili	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Kevin Shiroma	No	0	0	0	0	0	0	0	0		**8**
Prodencio Mentac	No	0	0	0	0	0	0	0	0		**8**
Richardo Doles	Yes	Survey results not available for this individual.									
HAR-OCB 11/13/014											

Logan Williams IV	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCO 11/4/014											
Charley Alejandro	Yes	1		1	1	1	1	1	1	**7**	**8**
Felino Padilla	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OC 11/4/014											
Anne Stevens	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Deborah Ancheta	Yes	1	1	1	1	1	1	1	1	**8**	**9**
11/4/014											
Dennis Okamoto (OC9)	Yes	1	1	1	1	1	1	1		**7**	**8**

Hawaii Department of Transportation, Harbors Division	Date: April 10, 2014	District: Maui
	Presenter: Jim Galariada, HAR-EE	
	Subject: Overview of environmental program; overview of EMS - Aspects and Impacts and Operational Controls; videos-"Storm Water Runoff", "Pollution Prevention", and "Universal Waste".	

Training Sign-In

Print Name Legibly	Signature
Louis "Rocky" Nobriga	
Clayton DeLos Santos	
Wilbert Pacheco	Wilbert Pacheco JR
David Tavares Jr.	
PETER DIEGO	
Bronson Gumtang	
Dennis Rodrigues Jr	
Donovan Canite	
Robert Idemoto	
Marshall Sacaparin-Baisa	
JIM GALARIADA	J. Galariada

	Hawaii Department of Transportation, Harbors Division	Date: April ~~10~~ 11, 2014 District: Maui Presenter: Jim Galariada, HAR-EE Subject: Overview of environmental program; overview of EMS - Aspects and Impacts and Operational Controls; videos-"Storm Water Runoff", "Pollution Prevention", and "Universal Waste".

Training Sign-In

Print Name Legibly	Signature
Marshall Sacapano-Baisa	
Robert Idemoto	
David Tavares Jr	
Bronson Gumtang	
Duane Kim	
JIM GALARIADA	

DEPARTMENT OF TRANSPORTATION · STATE OF HAWAII	**Hawaii Department of Transportation, Harbors Division**	Date: 26 Sept 14	District: Hawaii
		Presenter: Jim Galariada, HAR-EE	
		Subject: Overview of environmental program; Overview of EMS - Aspects and Impacts and BMP; videos-"Storm Water Runoff", "Pollution Prevention", and "Universal Waste".	

Training Sign-In

Print Name Legibly	Signature
Nathan L. Ortega	Nathan L. Ortega
Russell L. Moore	Russell L Moore
Curtis D. Badua SR	Curtis D. Badua
Keoka Aung	Keoka Aung

100%

2014 DOT Harbors EMS Quiz

Name: Louis "Rocky" Nobriga **Date:** 4/10/14

Baseyard: Kahului Harbor - Maintenance

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

Excellent presentation of course material & training session.

100%

2014 DOT Harbors EMS Quiz

Name: Marshall Sacapano-Baisa **Date:** 4/10/14

Baseyard: Harbors, Maui District - Kahului

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
    a. Nothing.
    b. Spray the spot with a water hose.
    c. Place a drip pan beneath the leak and conduct spill response actions.
    d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
    a. Less than 25 gallons of oil.
    b. 25 gallons or more of oil.
    c. Anything visible on the ground.
    d. No notifications are required.

Comments:

100%

2014 DOT Harbors EMS Quiz

Name: David Tavares Jr **Date:** 4/10/14

Baseyard: Kahului Harbors

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False? Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-2

2014 DOT Harbors EMS Quiz

Name: DIEGO, PETER D. **Date:** 10 APRIL 2014

Baseyard: KAHULUI HARBOR

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean. F

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100 %

2014 DOT Harbors EMS Quiz

Name: Donovan Canite **Date:** 4/10/11

Baseyard: Kahului Harbor

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-/

2014 DOT Harbors EMS Quiz

Name: Dennis Rodrigues **Date:** 4/10/14

Baseyard: Kahului Harbor

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean. False

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-/

2014 DOT Harbors EMS Quiz

Name: Robert Idemoto **Date:** 4/10/14

Baseyard: Kahului, Harbor

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-/

2014 DOT Harbors EMS Quiz

Name: Boonson Gumtang **Date:** 04.10.14

Baseyard: DOT Harbors

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-2

2014 DOT Harbors EMS Quiz

Name: Clayton Delos Santos **Date:** 4/10/14

Baseyard: KAHULUI. HARBOR

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-4

2014 DOT Harbors EMS Quiz

Name: Gilbert Pacheco JR **Date:** 4-10-14

Baseyard: Kahului HARbor

1. Which of the following are potential stormwater pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Stormwater is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Regular AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100 %

2014 DOT Harbors EMS Quiz

Name: William J Rodrigues **Date:** 6-12-2014

Baseyard: Nawiliwili

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100 %

2014 DOT Harbors EMS Quiz

Name: JUDSON K. VENTAR, SR. **Date:** 06/12/14

Baseyard: HARBOR'S (NAWILI WILI) KAUAI

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-2

2014 DOT Harbors EMS Quiz

Name: Iris Craig **Date:** 6/12/14

Baseyard: Nawiliwili

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100%

2014 DOT Harbors EMS Quiz

Name: DWIGHT H. YAMA **Date:** 12 JUN 14

Baseyard: Port Allen

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100%

2014 DOT Harbors EMS Quiz

Name: Robert Cecconi **Date:** 6/12/2014

Baseyard: Nawiliwili harbor

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-2

2014 DOT Harbors EMS Quiz

Name: Bob Crowell **Date:** 6/12/14

Baseyard: NAWILIWILI

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. ~~True or False~~: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-1

2014 DOT Harbors EMS Quiz

Name: WESLEY KAWAMOTO **Date:** 6-12-14

Baseyard: HAR-KAUAI

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

-1

2014 DOT Harbors EMS Quiz

Name: GERALD RAPOZO **Date:** 6-12-14

Baseyard: HARBORS KAUAI

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:

100 %

2014 DOT Harbors EMS Quiz

Name: KENNETH MEATOGA **Date:** 6-12-2014

Baseyard: NAWILIWILI HARBOR

1. Which of the following are potential storm water pollutants?
   a. Grass cuttings.
   b. Trash.
   c. Sediment.
   d. All of the above.

2. True or False: Storm water is treated prior to being discharged to the ocean.

3. What does EMS stand for?
   a. Environmental Management System.
   b. Emergency Medical System.
   c. Everyone Must Stand.
   d. Environmental Mayhem System.

4. Which of the following restrictions are applicable to herbicide application?
   a. Do not apply near a surface water or storm drain.
   b. Use the MOST toxic chemical available.
   c. Do not broadcast spray.
   d. a. and c.

5. Which of the following is an example of a BMP?
   a. Sweeping up debris.
   b. Using a drip pan.
   c. Covering dumpsters.
   d. All of the above.

6. How many times should an empty herbicide container be rinsed?
   a. Three.
   b. Once.
   c. Fifty.
   d. It doesn't need to be rinsed.

7. Where should aerosol cans be stored at the end of the day?
   a. Flammable storage locker.
   b. Shop table.
   c. Vehicle dashboard.
   d. None of the above.

8. Which of the following items are considered universal waste?
   a. Green cap fluorescent lights.
   b. Non-Rechargeable AA batteries.
   c. Silver cap fluorescent lights.
   d. None of the above.

9. What should you do if you notice a small leak coming from your vehicle?
   a. Nothing.
   b. Spray the spot with a water hose.
   c. Place a drip pan beneath the leak and conduct spill response actions.
   d. Call a spill response contractor.

10. Which of the following is a major spill that requires notifications to regulatory agencies?
   a. Less than 25 gallons of oil.
   b. 25 gallons or more of oil.
   c. Anything visible on the ground.
   d. No notifications are required.

Comments:
U DA MAN!!!

	Attended Training	Q1	Q	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Correct Score
Hawaii District												
Hilo Baseyard												
Dave Aina	Yes											
Curtis Badua	Yes											
Clyde Aina	Yes											
Dayton Acosiba	Yes	Survey results are not available for this group.										
Micheal Augustine	Yes											
Gene Ishibashi	Yes											
Marissa Bondaug	Yes											
Kawaihae Baseyard												
Nathan Ortega	Yes											
Michael Augustin	Yes											
Gene Ishibashi	Yes											
Randal Leong	Yes	This group took the survey that was distributed by email on 18 July 14.										
Jeff Hood	Yes											
Debbie Kuntz	Yes											
Greer McKeen	Yes											
Kauai District												
4/10/014												
Bob Crowell	Yes	1		1	1	1	1	1		1	1	8
Robert Cecconi	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Annabelle Clark	Yes											
Iris Craig	Yes	1	1	1	1	1		1		1	1	**8**
Robert McNaught	No											
Kelly Arakaki	No											
Wesley Kawamoto	Yes	1	1	1	1	1	1	1		1	1	**9**
Larry Okamoto	No											
Kenneth Meatoga	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Corey Romero	No											
Gerald Rapozo	Yes	1	1	1		1	1	1		1	1	**8**
William Rodrigues	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Judson Ventar	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Dwight Yama	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Gaivin Alao												
Wendell Kam												
Maui District												
4/10/014												
Harold Brittain	No											
Donovan Canite	Yes	1	1	1	1	1	1	1	1	1	1	**10**
Clayton Delos Santos	Yes	1	1	1		1		1	1	1	1	**10**
Peter Diego	Yes	1	1	1		1	1	1		1	1	**8**
Jason Gonsales	No	0	0	0	0	0	0	0	0	0	0	
Robert Idemoto	Yes	1	1	1	1	1	1	1		1	1	**9**
Louis Nobriga	Yes	**1**	1	1	1	1	1	1	1	1	1	**10**
Gilbert Pacheco Jr.	Yes	1		1				1	1	1	1	**6**
Broson Gumtang	Yes	**1**	1	1	1	1	1	1		1	1	**9**
Dennis Rodrigues Jr.	Yes	1	1	1	1	1	1	1	1		1	**9**
Marshall Sacapanio-Baisa	Yes	1	1	1	1	1	1	1	1	1	1	**10**
David Tavares	Yes	1	1	1	1	1	1	1	1	1	1	**10**
4/11/014												

Marshall Sacapanio-Baisa	Yes	
Robert Idemoto	Yes	This additional training was presented at the request of the Maui District Manager. No Survey was presented.
David Tavares	Yes	
Broson Gumtang	Yes	
Duane Kim	Yes	

										Total Correct Score	
Honolulu District Mixed Class 11/5/014											
Walter Aguinaldo (HAR-OCG)	Yes	1	1	1	1	1	1	1		**7**	**8**
Fred Bautista (HAR-OCG)	Yes	1	1	1	1	1	1	1		**7**	**8**
Rafael Inso (HAR-OCO)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
John DeJesus (HAR-O)	Yes	1	1	1	1	1		1		**6**	**7**
Bob Bee (HAR-OCM; OC8)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Robert McLean (HAR-OCG)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Sandra Nihi (HAR-OCG)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jim Galariada HAR-EE)	Yes										**0**
HAR-OM											
Ronald Kapuniai	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Clyde Nishigata	Yes	1	1	1	1	1	1	1		**7**	**8**
HAR-OCG 11/6/014											
Kenneth Zane	Yes	Survey results not available for this individual.									
Michael Milles	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jerome Radona	Yes		1	1	1	1	1	1	1	**7**	**8**
Rosie Jo Kapanui-Sula	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nestor Sagayadoro	Yes	1	1	1		1	1		1	**6**	**7**
Wendell Kahaleoumi	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Anthony Dela Cruz	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Kenneth Zane	Yes	1	1	1		1		1	1	**6**	**7**
Richard Carvalho	Yes	1	1	1		1	1	1	1	**7**	**8**
John Liftee	Yes	1	1	1		1	1	1	1	**7**	**8**
Chilltin Apana (89-day hire)	Yes	1	1	1		1	1	1	1	**7**	**8**
Alice Vangelder	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCM 11/6/014											
Mark Hashiro (OC5)	Yes	1	1	1		1	1	1	1	**7**	**8**
HAR-OM 11/1/014											
Elmer Hirono	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Reginald Tanaka-Kawaakoa	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Keith Chikamori	Yes	1	1	1		1		1		**5**	**6**
Patrict Santos	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nelson Kaloa	Yes	1	1	1	1	1	1	1		**7**	**8**
Clifford Ontai	Yes	1	1	1	1	1	1	1		**7**	**8**
Clayton Niibu	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Dean Ibana	Yes	1	1	1	1	1	1	1	1	**8**	**9**

David Markle	Yes	1	1	1	1	1	1	1		**7**	**8**
Layne Sunada	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Keoni Araki	Yes	1	1	1	1	1	1	1		**7**	**8**
Don Minoda	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Aurelio Preza	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Michael Felix	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Leeann Kaili	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Alan Jichaku	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jon McKee	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Peter Pruski	Yes		1	1		1	1	1	1	**6**	**7**
Raymond Saito	Yes	1	1	1	1	1		1	1	**7**	**8**
Jason Nishigata	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Derek Buendia	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Jeffrey Mun	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Myles Umeda	Yes	1	1	1	1	1	1	1		**7**	**8**
Mario Argones	Yes	1	1		1	1	1	1	1	**7**	**8**
Semala Maulupe	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Robert Gayer	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Albert Castro Jr.	Yes	1	1	1		1	1	1	1	**7**	**8**
HAR-OCM 11/1/014											
Billy Lee (OC6)	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCG 11/1/014											
Nestor Guron	Yes			1			1	1		**3**	**4**
HAR-OCB 11/1/014											
Calvin Woo	Yes	1		1	1	1	1	1	1	**7**	**8**
HAR-OCG 11/13/014											
Gregory Gomes	Yes	1	1	1	1	1		1		**6**	**7**
Antonio Rivera	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Vandy Sibounheuang	Yes	1		1	1	1	1	1	1	**7**	**8**
Ciriaco Valeriano	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Norma Agmata	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Roy Matautia	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Marcelo Gabonia	Yes	1	1	1		1	1	1	1	**7**	**8**
Paul Shimizu	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Mike Winfield	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Semala Maulupe	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Nelson Boyce	No										
Christopher Savea	No										
Leeann Kaili	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Kevin Shiroma	No	0	0	0	0	0	0	0	0		**8**
Prodencio Mentac	No	0	0	0	0	0	0	0	0		**8**
Richardo Doles	Yes	Survey results not available for this individual.									
HAR-OCB 11/13/014											

Logan Williams IV	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OCO 11/4/014											
Charley Alejandro	Yes	1		1	1	1	1	1	1	**7**	**8**
Felino Padilla	Yes	1	1	1	1	1	1	1	1	**8**	**9**
HAR-OC 11/4/014											
Anne Stevens	Yes	1	1	1	1	1	1	1	1	**8**	**9**
Deborah Ancheta	Yes	1	1	1	1	1	1	1	1	**8**	**9**
11/4/014											
Dennis Okamoto (OC9)	Yes	1	1	1	1	1	1	1		**7**	**8**

Attachment 14. Division Employee Training

a. Training Fact Sheet
b. Summary of Survey Results

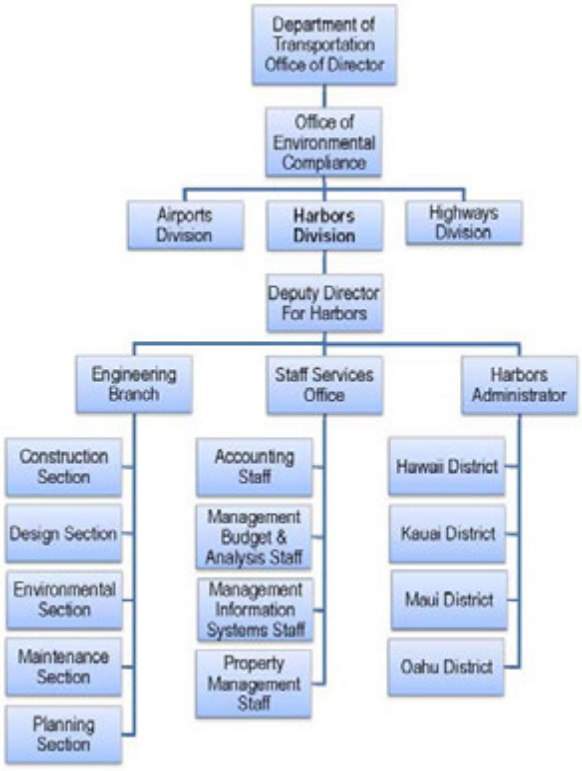
HDOT Harbors Employee Stormwater Awareness Fact Sheet

The basics about the HDOT Harbors Division Stormwater Management Plan [SWMP] for **Honolulu Harbor and Kalaeloa Barbers Point Harbor**.

Why are we concerned about stormwater?

- Urban runoff becomes polluted by litter, pesticides, fertilizers, sediment from construction, bare soil, oil spills, pet waste, grass clippings and leaves, on its way to storm drains. Additionally, human activities (e.g., vehicle washing) can also be the source of polluted runoff.
- This polluted runoff can impact the aquatic environment, harm wildlife, damage coral reef systems, and make the water unsafe for use.
- The SWMP is designed to reduce the potential pollutants that can impact the runoff.

Harbors Administrative Organizational Chart



For a detailed description of responsibilities contact: Randal Leong, Environmental Section Supervisor at (808) 587-1962.

- **<u>Every Harbors Division employee</u>** has a responsibility to protect the environment and prevent violations of water quality.
    - Implement Best Management Practices [BMPs].
    - Report suspected illicit discharges.
- Oahu District is responsible for placing stormwater signs, stenciling and cleaning storm drains, noting illicit discharges, and maintaining BMPs.
- Property Management Section assists the Environmental Section to ensure that tenants implement proper BMPs.
- Engineering Branch is responsible for ensuring the construction and post-construction programs are implemented.
- Information Technology Personnel assist with updating the Harbors website.
- Environmental Section will provide oversight for the SWMP, conduct required activities, and assist with enforcement where necessary.

Best Management Practices

- BMP is a control or practice used to mitigate the generation of potential pollutants during required work activities.
- Specific BMP fact sheets are available online: http://hidot.hawaii.gov/harbors/library/storm-water-management/
    - Vehicle and equipment maintenance.
    - Vehicle and equipment fueling.
    - Vehicle and equipment washing.
    - Material storage and handling.
    - Solid waste management.
    - Building and sidewalk washing.
- Construction activities conducted at Honolulu Harbor and Kalaeloa Barbers Point Harbor should adhere to Harbors **Construction Site Runoff Control Program**: http://hidot.hawaii.gov/harbors/library/storm-water-management/.

What are illicit discharges?

- **Any non-stormwater discharge that poses a risk to the environment.**
- Examples:
    - Fuel spills.
    - Leaking vehicles or equipment where a sheen is visible on the ground.
    - Washwater from handwashing or vehicle washing activities that is not contained.
    - Paint chips for sanding or grinding operations that is not contained.
    - Materials stored improperly outdoors.
    - Leaking trash bins.
    - Sediment laden water from construction activities that is not contained.
- What is required if an illicit discharge is suspected at Honolulu Harbor or Kalaeloa Barbers Point Harbor?
    - Call the Stormwater Reporting Hotline: (808) 587-1962 (working hours only)
    - Call Harbor Traffic Control Unit: (808) 587-2076 (24/7)

☆ Tip: Click here to find out how you can help at home to keep our ocean clean.

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Agmata,Norma H											0
	Agpalsa,Ronald K											0
	Aguinaldo,Walter D											0
1	Aina,Clyde I											0
	Aina,Dave D											0
	Aiu,Ana Marie D											0
	Alao,Gaivin C											0
	Alcosiba,Dayton N											0
1	Alejandro,Charles J	1	0	0	1	1	1	1	1	1	0	7
1	Alipio,Viola Rose	1	1	1	1	1	1	1	1	1	1	10
1	Ancheta,Deborah Y	1	1	1	1	1	1	1	1	1	1	10
1	Andres,Dale C	1	1	1	1	1	1	1	1	1	1	10
1	Apana,Chilltin K Jr											0
	Arakaki,Kelly K											0
1	Araki,Keoni T											0
1	Argones,Mario Y											0
1	Asato,Neil M	1	1	1	1	1	1	1	1	1	1	10
1	Asuncion,Shayna M M	1	1	0	1	1	1	1	1	1	1	9
1	Au,June A	1	1	1	1	1	1	1	1	1	1	10
1	Au,Kendrick Yun Hook	1	1	1	1	1	1	1	1	1	1	10
	Augustin,Michael J											0
1	Badua,Curtis D Sr											0
1	Bautista,Cynthia P											0
	Bautista,F P S Jr	1	1	1	1	1	1	1	1	1	1	10
1	Bee,Bob M	1	1	1	1	1	1	1	1	1	0	9
1	Bigelow,Aurora B	1	1	1	1	1	1	1	1	1	1	10
	Bondaug,Marissa A											0
1	Boyce,Nelson E											0
1	Brittain Jr,Harold E	1	1	1	1	1	1	1	1	1	1	10
1	Buendia,Derek A											0
1	Cabrera,Myrna C	1	1	1	1	1	1	1	1	1	1	10
1	Canite,Donovan G	1	1	1	1	1	1	1	1	1	1	10
1	Carvalho,Richard M											0
1	Castillo,Josephine M	1	1	1	1	1	1	1	1	1	0	9
1	Castro,Albert L Jr											0
1	Cecconi,Robert A	1	1	1	1	1	1	1	1	1	1	10
1	Chan,Siu Wing	1	1	1	1	1	1	1	1	1	1	10
1	Chen,Jiachen X	1	1	1	1	1	1	1	1	1	1	10

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Cheng,Joe Y C	1	1	1	1	1	1	1	1	1	1	10
1	Chikamori,Keith K											0
1	Childress,Ameria V	1	1	1	1	1	1	1	1	1	1	10
	Chu,Aaron K M											0
1	Chun,Calvert J T	1	1	1	1	1	1	1	1	1	1	10
1	Clark,Annabelle R	1	1	1	1	1	1	1	1	1	1	10
1	Craig,Iris K	1	1	1	1	1	1	1	1	1	1	10
1	Crowell,Robert B	1	1	1	1	1	1	1	1	1	1	10
1	Dale,Steven R	1	1	1	1	1	1	1	1	1	1	10
	Dejesus,John S											0
1	Delacruz,Anthony Mark											0
1	Delos Santos,Clayton	1	1	1	1	1	1	1	1	1	1	10
1	Diego,Peter D	1	1	1	1	1	1	1	1	1	1	10
1	Doles,Ricardo Q											0
1	Dupio,Sergio C	1	1	1	0	1	1	1	1	1	1	9
1	Felix,Michael Kevin	1	1	1	0	1	1	1	1	1	1	9
1	Ferguson-Miyamoto,J M	1	1	1	1	1	1	1	1	1	0	9
1	Franklin,Vannesa Tran	1	1	1	1	1	1	1	1	1	1	10
1	Fukumoto,Arnold H	1	1	1	1	1	1	1	1	1	1	10
1	Gabonia,Marcelo M	0	1	0	1	1	1	1	1	1	0	7
1	Galariada,Jim-Fornes S T	1	1	1	1	1	1	1	1	1	1	10
1	Ganigan,Arleen S	1	1	1	1	1	1	1	1	1	1	10
1	Ganton,Joe	1	1	1	1	1	1	1	1	1	1	10
1	Gayer,Robert M											0
1	Gomes,Gregory K											0
1	Gomez,Franita K	1	1	1	1	1	1	1	1	1	0	9
1	Gonsales,Jason R	1	1	1	1	1	1	1	1	1	1	10
	Gooch,Daniel A											0
1	Guron,Nestor G											0
1	Hanohano,Mark M	1	1	1	1	1	1	1	1	1	1	10
1	Hayashi,Elaine C	1	0	1	1	1	1	1	1	1	1	9
1	Heafner,Sherryle F	1	1	1	1	1	1	1	1	1	1	10
1	Higashi,Jo-Ann E	1	1	1	1	1	1	1	1	1	1	10
1	Hiraki,Randal K	1	1	1	1	1	1	1	1	1	1	10
1	Hirano,Elmer T	1	1	1	0	1	1	1	1	1	1	9
1	Hirokawa,Gregg H	1	1	1	1	1	1	1	1	1	1	10
1	Hodson,Carol-Ann T	1	1	1	1	1	1	1	1	1	1	10
1	Hood,Jeff D	1	1	1	1	1	1	1	1	1	1	10

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Hosea,Wendell C.	1	1	1	1	1	1	1	1	1	1	10
1	Howells,Michael H	1	1	1	1	1	1	1	1	1	1	10
1	Huang,Xiping	1	1	1	1	1	1	1	1	1	1	10
1	Ibana,Dean F S											0
1	Ibarra,Violette M	1	1	1	1	1	1	1	1	1	0	9
1	Idemoto Jr,Robert K	1	1	1	1	1	1	1	1	1	1	10
1	Ikeda,Sharilyn S	1	1	1	1	1	1	1	1	1	1	10
1	Inso,Rafael F	1	1	1	1	1	1	1	1	1	0	9
1	Iritani,Amy S	1	1	1	1	1	1	1	1	1	1	10
1	Isa,Richard Rodney	1	1	1	0	1	1	1	1	1	1	9
	Ishibashi,Gene M											0
1	Jaena,Avery J L	1	1	1	1	1	1	1	1	1	1	10
1	Jichaku,Alan H											0
1	Johnasen,Cheri A	1	1	1	1	1	1	1	1	1	1	10
1	Kahaleoumi,Wendell Jr											0
1	Kaili,Lee Ann K											0
1	Kaloa,Nelson K											0
1	Kapanui-Sula,Rosie-Jo P											0
1	Kawai,Gavin Eleu	1	1	0	1	1	1	1	1	1	1	9
1	Kawamoto,Wesley T											0
1	Kido,Kimberly	1	1	1	1	1	1	1	1	1	1	10
1	Kim,Duane S S	1	1	1	1	1	1	1	1	1	1	10
1	Kimura,Clarence M	1	1	1	1	0	1	1	1	1	1	9
1	Koa,Henry A.	1	1	0	1	1	1	1	0	1	1	8
1	Kong,Verna Leilani	1	1	0	1	1	1	1	1	1	1	9
1	Kono,Kerstin T	1	1	0	1	1	1	1	1	1	1	9
1	Kua,Jonathan L	0	1	1	1	1	1	1	1	1	1	9
1	Kumasaka,Peter K	1	1	1	1	1	1	1	1	1	1	10
1	Kuntz,Debra L	1	1	1	1	1	1	1	1	1	1	10
1	Kuriki,Beverly C	1	1	1	1	1	1	1	1	1	1	10
1	Lee,David L	0	1	1	1	1	1	1	1	1	0	8
1	Lee,William G T	1	1	1	1	1	1	1	1	1	1	10
1	Leong,Eric S L	1	1	1	1	1	1	1	1	1	1	10
1	Leong,Randal H W	1	1	1	1	1	1	1	1	1	1	10
1	Liftee Jr,John M											0
1	Lindsey,Cynthia J	1	1	1	1	1	1	1	1	1	1	10
1	Liu,Arnold H K	1	1	1	0	1	1	1	1	1	1	9
1	Luke,Carter W S	1	1	0	0	1	1	1	1	1	1	8

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Mahaulu,Daverney Gioia K	1	1	1	1	1	1	1	0	1	1	9
	Malate,Manolito M											0
1	Markle,David G											0
1	Matautia,Roy R											0
1	Maulupe,Semala P											0
1	Mckee,Jon C	1	1	1	0	1	1	1	1	1	1	9
1	McKeen,Greer L	1	1	1	1	1	1	1	1	1	1	10
1	Mclean,Robert A	1	1	1	1	1	1	1	1	1	1	10
1	Mcnaught,Robert P	1	1	1	1	1	1	1	1	1	1	10
1	Meatoga,Kenneth K											0
1	Medeiros,Thomas P	1	1	1	1	1	1	1	1	1	1	10
1	Mentac Jr,Prodencio B											0
	Mike,Winfield Z											0
1	Milles,Michael K											0
1	Minoda,Don H	1	1	1	1	1	1	1	1	1	1	10
	Miu,Margaret WC											0
	Miura,Kevin J											0
1	Miyahira,Kathy P	1	1	1	1	1	1	1	1	1	1	10
1	Miyamoto,Charles K	1	1	1	0	1	1	1	1	1	1	9
	Miyasato,Neal H											0
1	Miyashiro,Patti E	1	1	1	1	1	1	1	1	1	1	10
1	Moore,Russell L	1	1	1	1	1	1	1	1	1	1	10
	Morishige,Gregg H											0
1	Mun,Jeffrey H S											0
1	Murakami,Alan Koji	1	1	1	1	1	1	1	1	1	1	10
1	Nakamura,Clayton H	1	0	0	1	1	1	1	1	1	1	8
1	Nekoba,Robert H	1	1	1	1	1	1	1	1	1	0	9
	Nihi,Sandra D											0
1	Nihipali,Cherinne L	0	1	1	1	1	1	1	1	1	1	9
1	Niibu,Clayton E											0
	Nishigata,Clyde M											0
1	Nishigata,Jason K											0
1	Nishimura,Chad C	1	1	1	1	1	1	1	1	1	1	10
1	Nobriga,Louis J	1	1	1	1	1	1	1	1	1	1	10
1	Offutt,Todd	1	1	1	1	1	1	1	1	1	1	10
1	Okamoto,Dennis Y											0
	Okamoto,Larry W M											0
1	Olanolan,Beulah A K	1	1	1	0	1	1	1	0	1	1	8

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Ontai,Clifford J											0
1	Ortega,Nathan L											0
1	Oshita,Jean L	1	1	1	1	1	1	1	1	1	1	10
1	Ota,Eric K	1	1	1	1	1	1	1	1	1	1	10
1	Otaguro,Janice M	1	1	1	1	1	1	1	1	1	1	10
1	Pacheco,Gilbert T Jr	1	1	1	1	1	1	1	1	1	1	10
	Padaca,Rosemarie A											0
1	Padilla,Felino Santos	1	1	1	1	1	1	1	1	1	0	9
1	Powell,Lisa R	1	1	1	0	0	1	1	1	1	1	8
1	Prather,Jeffrey S	1	1	1	1	1	1	1	1	1	1	10
1	Preza Jr,Aurelio A											0
1	Pruski,Peter J											0
1	Radona,Jerome M											0
1	Rapozo,Gerald Bruce											0
1	Redila,Bernadette	1	1	1	1	1	1	1	1	1	0	9
1	Rivera,Antonio J											0
1	Rocha,Edward E	1	1	1	0	1	1	1	1	1	1	9
1	Rodrigues Jr,Dennis	1	1	1	1	1	1	1	1	1	1	10
1	Rodrigues Jr,William J											0
	Romero,Corey K											0
1	Rossetter,Sandra C	1	1	1	1	1	1	1	1	1	1	10
1	Sacapanio-Baisa,Marshall J											0
1	Sagayadoro,Nestor L											0
1	Saito,Raymond M											0
1	Santos,Patrick W											0
1	Savea,Christopher S											0
1	Savusa,Joni L	1	1	1	1	1	1	1	1	1	0	9
1	Shimabukuro,Brandie R	1	1	1	1	1	1	1	1	1	1	10
1	Shimizu,Paul M	1	1	1	1	1	1	1	1	1	1	10
1	Shinsato,Gary H	1	1	1	1	1	1	1	1	1	1	10
1	Shintani,Candice C	0	1	1	1	1	1	1	1	1	1	9
1	Shiroma,Kevin T											0
1	Sibounheuang,Vandy											0
1	Stanley,Brock A	0	1	1	1	1	1	1	1	1	1	9
1	Stevens,Anne V	1	1	1	1	1	1	1	1	1	1	10
	Strehler,Bernard L											0
	Suganuma,Elton K											0
1	Sugiyama,Eric I	1	1	1	1	1	1	1	1	1	1	10

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Sumida,Branden S	1	1	1	1	1	1	1	1	1	1	10
1	Sunada,Layne M											0
1	Tachino,Bonny S	1	1	1	1	1	1	1	1	1	1	10
1	Takamoto,Wade K	1	1	1	1	1	1	1	1	1	1	10
	Takata,Gary M											0
1	Takeshima,Erin M	1	1	1	1	1	1	1	1	1	1	10
	Tamon,Susan N											0
1	Tanaka-Kawaakoa,Reginald Aarona Kazuonobu											0
1	Tavares Jr,David F	1	1	1	1	1	1	1	1	1	1	10
1	Toba,Bert R	1	1	1	1	1	1	1	1	1	1	10
1	Todt,John W	1	1	1	1	1	1	1	1	1	1	10
1	Travens,Melchor A	1	1	1	1	1	1	1	1	1	1	10
1	Tsuzuki,Gary I	1	1	1	0	1	1	1	1	1	1	9
1	Tyau,Sau Ying L	1	1	1	1	1	1	1	1	1	1	10
1	Ueda,Spencer S	1	1	1	0	1	1	1	1	1	0	8
1	Umeda,Myles S											0
1	Valeriano,Ciriaco P											0
1	Vangelder,Alice R											0
1	Ventar,Judson Kurt Sr.											0
1	Vo,Dung P	1	1	1	1	1	1	1	1	1	1	10
1	Vuong,Huong C	0	1	1	1	1	1	1	1	1	1	9
1	Wang,Lena L	0	1	0	1	1	1	1	1	1	1	8
1	Watase,Dean K	1	1	1	1	1	1	1	1	1	1	10
1	Williams,Logan J Iv	1	1	1	1	1	1	1	1	1	1	10
1	Wong,Nami J H	1	1	1	0	1	1	1	1	1	1	9
1	Woo,Calvin K											0
1	Yama,Dwight H											0
1	Yamaguchi,Carol A	1	1	1	0	1	1	1	1	1	1	9
1	Yamane,Rodney K	1	1	1	1	1	1	1	1	1	1	10
1	Yee,Jonathan SW	1	1	1	1	1	1	1	1	1	1	10
1	Yim,Spencer K	1	1	1	1	1	1	1	1	1	1	10
1	Yogi,Davis K	1	1	1	1	1	1	1	1	1	1	10
1	Yokouchi,Gerald S	1	1	0	1	1	1	1	1	1	0	8
1	Yoneda,Richard S	1	1	1	1	1	1	1	1	1	1	10
1	Young,Barbara M I	0	1	1	1	1	1	1	1	1	1	9
1	Young,Carl G	1	1	1	1	1	1	1	1	1	1	10
1	Young,Lauren MT	1	1	1	1	1	1	1	1	1	1	10

	Right Answer	b	d	a	d	d	a	a/b/d	d	b	c	
Survey	**Name**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Total**
1	Zane,Kenneth K K											0
1	Zhang,Ying	1	1	1	1	1	1	1	1	1	1	10
200	Total Count	133	139	131	127	140	142	142	139	142	127	142
0.873362	Percentage Surveyed/Trained	0.93662	0.978873	0.922535	0.894366	0.985915	1	1	0.978873	1	0.894366	
229	Number of Employees											

Attachment 15. IDDE Training Presentation

HDOT – Harbors Division
Illicit Discharge Detection & Elimination

MĀLAMA I KE KAI –

Protect Our Harbor Waters

HOKULEA

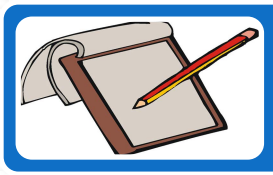
Agenda

Regulatory Background

Environmental Policy

Illicit Discharge Detection & Elimination (IDDE)

Best Management Practices



Record Keeping

Questions/Comments

Consequences of Non-Compliance

- September 2004: James Pflueger was fined $7.5 million for violations of the Clean Water Act. This landmark settlement is the largest penalty imposed to date in the US for a single site and single landowner. Additional fines were issued by DLNR and the State of Hawaii.
- February 2005: Frank Coluccio Construction Co. and Castle Family LLC was fined $68,000 for filling wetlands adjacent to Hamakua Stream without federal permits. An order was also given to restore the wetlands.
- May 2007: City and County of Honolulu received a fine of $1.6 million for overflows from the sanitary sewer into the storm drain system. An order was issued to upgrade the system (estimated $3.5 billion) and construct secondary treatment at wastewater treatment plants (estimated $1.5 billion).
- **September 2014: HI DOT Harbors receives NOV/fine of $1.2 million for violations of the Clean Water Act.**

EPA Regulation for HDOT Harbors

2006

- **Consent Decree**
  - Hawaii Department of Transportation (HDOT)
  - Required HDOT Harbors to establish an Environmental Management System (EMS)

2014

- **Consent Decree**
  - HDOT - Harbors associated
  - Includes requirements for Tenants, Construction and Post-Construction activities, Outfall Inspections, Storm Water Conveyance System Inspection and Cleaning, Training Programs, and Public Education
  - HDOT Shall fully comply with all requirements of the Clean Water Act, as well as with the terms and conditions of all applicable NPDES Permits

2014 Consent Decree Requirements

No.15.b.i –

"HDOT-Harbors will conduct Illicit Discharge Detection and Elimination Program Training …**HDOT-Harbors will also conduct annual training of Marine Cargo Specialists and Grounds Supervisors on Illicit Discharge Detection and Elimination procedures."**

2014 Consent Decree Requirements

No.16.a. –

"…**HDOT-Harbors shall develop and promote a list and description or examples of illicit discharges that are considered to be significant contributors or pollutants**...As part of the list, HDOT-Harbors shall clearly denote all conditionally authorized discharges to the storm sewer system, as well as **describe or give examples of discharges that are prohibited**..."

Allowable Non-Storm Water Discharges

1) Daily Operations

- Water line flushing
- Air conditioning condensate
- Landscape irrigation
- Discharges from potable water sources and foundation drains

2) Groundwater

- Rising groundwater (tidal intrusion)
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater

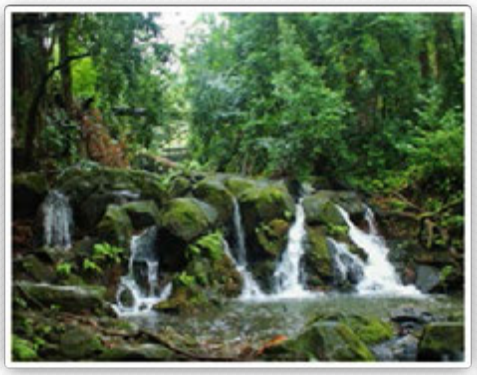
Allowable Non-Storm Water Discharges

3) Natural Origin

- Springs
- Riparian habitat and wetland flows
- Diverted stream flows

4) Emergencies

- Discharges from fire fighting activities



Illicit Discharge Definition

- Non-Storm Water Discharge (NSWD)
  - A discharge that is not composed entirely of storm water

- **Illicit Discharge**
  - An NSWD that **poses a risk to the environment**

2014 Consent Decree Requirements

No.16.b.i –

"HDOT-Harbors shall conduct site assessments (or Harbor Patrol) of high-risk areas in accordance with the Tenant Inspection Program and ORIIP Manual…site assessments are intended to:

- **1) identify active or recent illicit discharges; and**
- **2) increase the field presence of HDOT-Harbors personnel, and thus deter illicit discharges.**"

2014 Consent Decree Requirements

No.16.b.ii –

"HDOT-Harbors shall provide outreach activities during site assessments that include, but are not limited to, **providing BMP fliers and other materials and a schedule of training and other outreach activities. HDOT-Harbors shall also identify areas that would benefit from signs."**

Best Management Practices Fliers

- Vehicle and Equipment Washing
- Vehicle and Equipment Fueling
- Material Storage
- Common Businesses
- Solid and Hazardous Waste Management
- Material Delivery and Handling
- Building and Remodeling
- Small Vessel Maintenance Activities
- Building Power Washing
- Sidewalk and Walkway Power Washing
- Storm Drain Inlet Protection

Available online: http://hidot.hawaii.gov/harbors/library/storm-water-management/

Illicit Discharge Signage

As stated in CD No.16.b.ii.

Recommendations for signs shall be made based on patterns of illicit discharges observed.

2014 Consent Decree Requirements

No.14.c.i –

"HDOT-Harbors shall install the signs no later than 90 days after the entry of the Consent Decree. On an annual basis, HDOT-Harbors shall evaluate the need for additional signs, taking into account changing Tenant use patterns at the Harbors, and report this information in the ACR."

2014 Consent Decree Requirements

No.16.b.iii. –

"**HDOT-Harbors shall respond to violations identified during site assessments and initiate enforcement** in accordance with the Enforcement Response Plan."

HDOT Environmental Policy

- **Continual Improvement**

  Work continuously to improve the effectiveness of our environmental programs by establishing appropriate objectives, performance indicators and monitoring to guide those efforts and measure progress.

- **Obey Laws**

  Comply with all applicable environmental federal, state, and local statutes, regulations, enforceable agreements and permits. HDOT will employ training and communication tools to provide our employees awareness of this Policy, current applicable regulations and how it applies to everyday work.

- **Prevent Pollution**

  HDOT shall make efforts to reduce waste generation, minimize the use of hazardous chemicals, use recycled material when feasible, reduce resource consumption, and promptly respond to unplanned releases of pollutants (or contaminants) to minimize impact to the environment.

Regulatory Background

Regulatory Mechanisms	**Penalties for Lack of Compliance** (dependant on severity of violation)
• 40 CFR - Clean Water Act & NPDES • Hawaii Revised Statutes (HRS) • Hawaii Administrative Rules (HAR) • Other Applicable State & Federal Regulations	i. Verbal warnings ii. CITATION WITH MONETARY FINES iii. TERMINATION OF REVOCABLE PERMIT OF LEASE iv. REFERRAL TO HDOH OR OTHER APPROPRIATE REGULATORY AGENCY

Hawaii Regulatory Background

- NPDES regulatory authority is administered by Hawaii Department of Health
- Hawaii Administrative Rules (HAR)
  - Title 11Chapter 55 (11-55)
    - Water Pollution Control
  - Appendix K
    - NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Discharges from Small MS4s
- Harbors Division – Notice of General Permit Coverage (NGPC)
  - HI 03KB482 – Honolulu Harbor Permit
  - HI 03KB488 – Kalaeloa Barbers Point Harbor Permit

Regulatory Background

Hawaii Revised Statue	Summary and Purpose of Statue
HRS 266-1	Gives DOT jurisdiction over commercial harbors
HRS 266-2	Authorizes DOT to “use and permit and regulate”
HRS 266-3	DOT Director can adopt rules to prevent discharges likely affecting water quality or rendering such harbors unsightly, unhealthy, or unclean.
HRS 266-24	Establishes any officer, employee, or representative of the DOT as enforcing parties. Responsibilities include: • Inspecting and examining, at reasonable hours, any premises within HDOT-Harbors property; • Conduct enforcement actions through serving notices/orders, executing warrants, and arresting offenders.

Regulatory Background (Litter/Pollution)

- HAR 19-42-126; Littering or Polluting Land Areas
  - *(a) No person shall* ***throw, place, leave, deposit or abandon, or cause or*** *permit to be thrown, placed, left, deposited or abandoned* ***any litter within*** *a state harbor, except in receptacles designated by the department for the disposal of such materials. "Litter" as used in this section includes any and* ***all types of debris and substances, whether liquid or solid, and materials*** *such as* ***garbage, refuse, rubbish, glass, cans, bottles, paper, wrappings, fish or animal carcasses or any other substances which render harbor lands or*** *facilities unsightly, noxious or otherwise unwholesome to the detriment of the public health and welfare and effective and safe operation of the harbor.*
  - *(b) No person shall* ***deposit oil, oily refuse, sludge, chemicals or other hydrocarbons on state property except in specially designated collection*** *points. These items* ***may not be left in or near standard refuse containers or*** *anywhere else on harbors property. Penalties, including but not limited to the* ***revocation of mooring permits and the right to use the facilities, may be*** *invoked.*

Regulatory Background (Litter/Pollution)

- HAR 19-42-127; Littering or Polluting of Water
  - *No person shall place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any* ***litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or*** *otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard. No person shall discharge* ***oil sludge, oil refuse, fuel oil or molasses either directly or indirectly, or pump bilges or ballast tanks containing other than clean water into the*** *waters of any harbor, river or into any shore waters in the State.*

Illicit Discharge Definition

- Non-Storm Water Discharge (NSWD)
  - A discharge that is not composed entirely of storm water

http://www.georgiasprinklers.com/wp-content/uploads/2012/12/McDonough-GA-Irrigation.jpg

http://en.wikipedia.org/wiki/Firefighting#mediaviewer/File:DOD_mobile_aircraft_firefighting_training_device.jpg

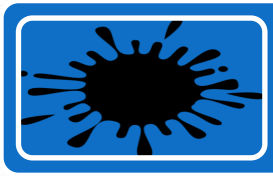
- **Illicit Discharge**
  - An NSWD that **poses a risk to the environment**

Common Illicit Discharges

Outdoor Hand Wash Stations and Sinks Draining to Ground

Building/Equipment Power Washing – Unpermitted and Improperly Contained

Vehicle Washing – Unpermitted and Improperly Contained



Large Spills – Vehicle Maintenance, Material Storage, Fueling Operations

Petroleum Sheen During Rain Events and Debris from Painting Operations

Sediment Discharge Due to Construction Activities

Common Illicit Discharges:

- ✓Outdoor Hand Wash Stations and Sinks Draining to Ground

HAR 19-42-126; Littering or Polluting Land Areas

(b) No person shall deposit oil, oily refuse, sludge, chemicals or other hydrocarbons on state property except in specially designated collection points.

Common Illicit Discharges:

- ✓Building/Equipment Power Washing – Unpermitted and Improperly Contained

HAR 19-42-126; Littering or Polluting Land Areas

(b) No person shall deposit oil, oily refuse, sludge, chemicals or other hydrocarbons on state property except in specially designated collection points.

Common Illicit Discharges:

- ✓Vehicle Washing – Unpermitted and Improperly Contained

HAR 19-42-126; Littering or Polluting Land Areas

(b) No person shall deposit oil, oily refuse, sludge, chemicals or other hydrocarbons on state property except in specially designated collection points.

Vehicle And Equipment Washing

Required Equipment to be Used Onsite in Designated Area:

Wet Vacuum

Berm

Proper Containment

Proper Waste Disposal

- *Berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water.*
- *Properly contain the wash water and dispose according to permit.*
- *If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm.*

Vehicle And Equipment Washing

WHO IS APPROVED?

1. McCabe, Hamilton & Renny (Wash Rack on Pier 23)
2. Young Brothers (Wash Rack on Pier 40)
3. Matson (Wash Rack on Pier 52)
4. Horizon (Pier 51A)
5. Hawaii Stevedores (Pier 1)

Common Illicit Discharges:

- ✓Large Spills
  - ✓Vehicle Maintenance
  - ✓Material Storage
  - ✓Fueling Operations

HAR 19-42-126; Littering or Polluting Land Areas

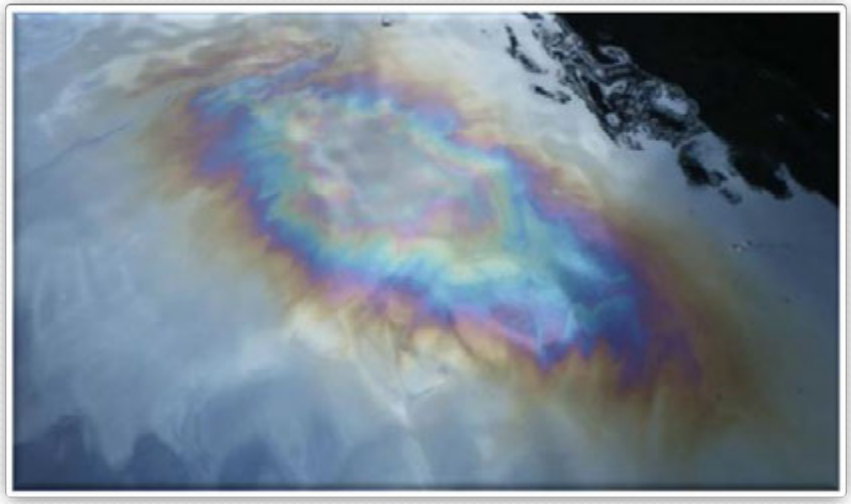
(b) No person shall deposit oil, oily refuse, sludge, chemicals or other hydrocarbons on state property except in specially designated collection points.

08/05/2013

DRAINS TO OCEAN
DUMP NO WASTE

Common Illicit Discharges:

✓Petroleum Sheen During Rain Events and Debris from Painting Operations



HAR 19-42-127; Littering or Polluting of Water

No person shall place, throw, deposit, or discharge, or cause to be placed, thrown, deposited, or discharged into the waters of any harbor, river or shore waters of the State any litter, or other gaseous, liquid or solid materials which render the water unsightly, noxious or otherwise unwholesome so as to be detrimental to the public health and welfare or a navigational hazard.

Common Illicit Discharges:

✓Sediment Discharge Due to Construction Activities

Harbors Projects

Environmental Section	(808) 587-1962
Construction Section	(808) 587-1866
Special Projects Section	(808) 586-2455

Tenant Projects

Environmental Section	(808) 587-1962
Property Management Section	(808) 587-1944

Storm Water Contacts

HARBORS CONTACTS – LAND BASED DISCHARGES

Harbors Environmental Section -	**(808) 587-1962**
	(808) 587-1976
	(808) 587-1960
	(808) 587-1963
Harbors Special Projects Section -	**(808) 586-2455**
Harbors Construction Section -	**(808) 587-1866**
Harbors Property Management Section -	**(808) 587-1944**

DISCHARGES ON THE WATER OR FROM VESSELS

Marine Traffic Control Unit -	**(808) 587-2076**

03/06/2012 15:21

Illicit Discharge Investigation

- Indications of an Illicit Discharge during dry weather conditions:

Odor	Color	Turbidity	Floatables	Deposits/ Stains
Sewage	Brown	Cloudy	Sewage	Oily
Petroleum/Gas	Gray	Opaque	Petroleum/Gas	Flow Line
Sulfide	Green		Suds/Bubbles	Paint
Rancid/Sour	Red			Sediment

Illicit Discharge Investigation

Observe

- Once a suspected illicit discharge is observed, stop and investigate
- Note indications of suspected illicit discharge
- Take pictures!

Trace

- Follow the suspected illicit discharge to locate the source
- Speak with local representatives (employees, tenant representatives) about potential spill, notify them of the suspected illicit discharge

Report

- Call appropriate agency and environmental response hotlines
- Describe location and your findings

Document

- Take pictures (more pictures the better!)
- Fill out and submit Suspected Illicit Discharge Reporting Form

Illicit Discharge Reporting

Discharge from vessel or already made it to water???

REPORT IT!!!

Harbor Traffic Control Unit (24/7)

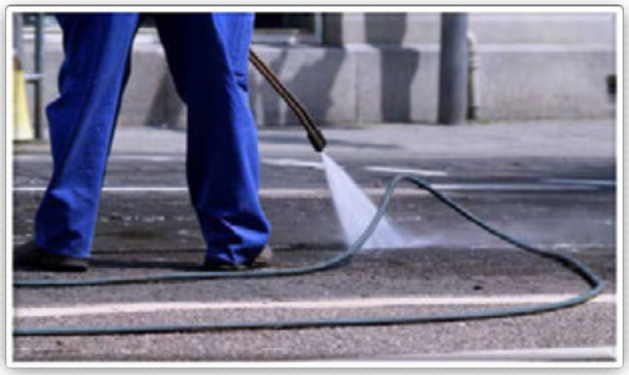
(808) 587-2076

Discharge from *land based* sources???

REPORT IT!!!

Harbors Environmental Section (work hours)

(808) 587-1962



Documentation – Record Keeping

- **O drive: /EMS/Harbors Division Notification Procedures/Suspected Illicit Discharge Reporting Form - Fillable**

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:			
Office Code:		Telephone Number:	
Report Date:			

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)			
Cause of Discharge: (if known)			
Clean-up Actions: (if applicable)			
Notifications Made:			

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	Telephone Number
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:			
Office Code:		Telephone Number:	
Report Date:			

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting

Agency	Telephone Number
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:		Telephone Number:	
Report Date:			

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting

Agency	Telephone Number
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	
Report Date:			

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:			

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:		Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

PROTECT OUR WATER

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)			

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		

Media into which the discharge occurred:
☐ Air ☐ Natural Soil ☐ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____

Responsible Party: (if known)	
Cause of Discharge: (if known)	
Clean-up Actions: (if applicable)	
Notifications Made:	

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☒ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)			
Cause of Discharge: (if known)			
Clean-up Actions: (if applicable)			
Notifications Made:			

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960
Additional Follow-up By HAR-EE (to be filled by HAR-EE):	

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

PROTECT OUR WATER

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☒ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)	Appears to be tenant maintenance staff		
Cause of Discharge: (if known)			
Clean-up Actions: (if applicable)			
Notifications Made:			

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960
Additional Follow-up By HAR-EE (to be filled by HAR-EE):	

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

PROTECT OUR WATER

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☒ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)	Appears to be tenant maintenance staff		
Cause of Discharge: (if known)	55-gallon drum rusted through		
Clean-up Actions: (if applicable)			
Notifications Made:			

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

PROTECT OUR WATER

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☒ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)	Appears to be tenant maintenance staff		
Cause of Discharge: (if known)	55-gallon drum rusted through		
Clean-up Actions: (if applicable)	Absorbent pads and oil booms		
Notifications Made:			

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960

Additional Follow-up By HAR-EE (to be filled by HAR-EE):

HDOT HAR-EE Form SIDR (3/13)

Hawaii Department of Transportation – Harbors Division

PROTECT OUR WATER

Suspected Illicit Discharge Reporting Form

General Information: Use this form to report a suspected illicit discharge. If you are unsure, please contact your supervisor or HAR-EE. Examples of illicit discharges: uncontained vehicle/equipment/building/sidewalk washing, sink discharging directly to ground or storm drain inlet, petroleum product release into the storm drain system, etc.

Observer Information			
Name:	John Scott		
Office Code:	XXXXXX	Telephone Number:	808-587-1962
Report Date:	1/1/2014		

Description of Suspected Illicit Discharge			
Address or Location:	Pier 00	Date and Time:	1/1/2014; 1300
Description: (Include Substance and Amount, if known)	Approx. 30-gallons of a petroleum substance ponding on bare asphalt southeast of maintenance shop near roll-off bin. Substance appears to be waste oil.		
Media into which the discharge occurred: ☐ Air ☐ Natural Soil ☒ Concrete/Asphalt Pavement ☐ Stream ☐ Ocean ☐ Other:_____			
Responsible Party: (if known)	Appears to be tenant maintenance staff		
Cause of Discharge: (if known)	55-gallon drum rusted through		
Clean-up Actions: (if applicable)	Absorbent pads and oil booms		
Notifications Made:	HDOT HAR-EE and Storm water Hotline		

Please forward completed form and/or picture(s) to HAR-EE office. Fax Number: (808) 587-1964

Point of Contact for Reporting	
Agency	**Telephone Number**
Harbor Traffic Control (Aloha Tower)	(808) 587-2076, (808) 368-5993 (Cellular)
Hawaii Department of Transportation Harbors Division, Engineering Environmental Section [HAR-EE]	(808) 587-1962, (808) 587-1976, (808) 587-1960
Additional Follow-up By HAR-EE (to be filled by HAR-EE):	

HDOT HAR-EE Form SIDR (3/13)

Storm Water Contacts

HARBORS CONTACTS – LAND BASED DISCHARGES

Harbors Environmental Section -	**(808) 587-1962**
	(808) 587-1976
	(808) 587-1960
	(808) 587-1963
Harbors Special Projects Section -	**(808) 586-2455**
Harbors Construction Section -	**(808) 587-1866**
Harbors Property Management Section -	**(808) 587-1944**

DISCHARGES ON THE WATER OR FROM VESSELS

Marine Traffic Control Unit -	**(808) 587-2076**

YOUNG

QUESTIONS OR COMMENTS?

Please contact Harbors Environmental Section at (808) 587-1962

Continual Improvement

Obey Laws

Prevent Pollution

http://hidot.hawaii.gov/harbors/library/storm-water-management/

ATTENDANCE SHEET

For Illicit Discharge Detection and Elimination (video)

NAME	POSITION	DATE OF TRAINING
1. Davis Yogi	Administrator	6 Jan 2015
2. Todd Offutt	Harbormaster	6 Jan 2015
3. Alan Murakami	Ops Supervisor (OC3)	6 Jan 2015
4. Paul Schimizu	Ops Supervisor (OC2), Acting	6 Jan 2015
5. Anne Stevens	Ops Supervisor (OC1)	6 Jan 2015
6. Dutch Hanohano	Chief, Harbor Police	6 Jan 2015
7. Joni Savusa	Business Services Supvr.	6 Jan 2015
8. Amelia Childress	Oahu District Secretary	6 Jan 2015
9. Jeffrey Prather	Security & Emergency Disaster	6 Jan 2015
10. David Lee	Facility Security Officer	6 Jan 2015
11. Neal Miyasato	Harbor Police	6 Jan 2015
12. Clarence Kimura	Aloha Tower Supervisor	6 Jan 2015
13. Dennis Okamoto	Harbor Agent	6 Jan 2015
14. Mark Hashiro	Marine Cargo Specialist	6 Jan 2015
15. Gregory Gomes	Grounds & Maintenance Supvr.	9 Jan 2015
16. Anthony DelaCruz	Grounds & Maintenance	9 Jan 2015
17. Robert McClean	Grounds & Maintenance Supvr.	9 Jan 2015

Attachment 16. Inspector Training

a. Tenant Inspection Presentation
b. ORI Inspection Presentation
c. On-The-Job Training Summary

Harbors Tenant Inspection Manual

By HAR-EE
HDOT Harbors Division

May 19, 2014

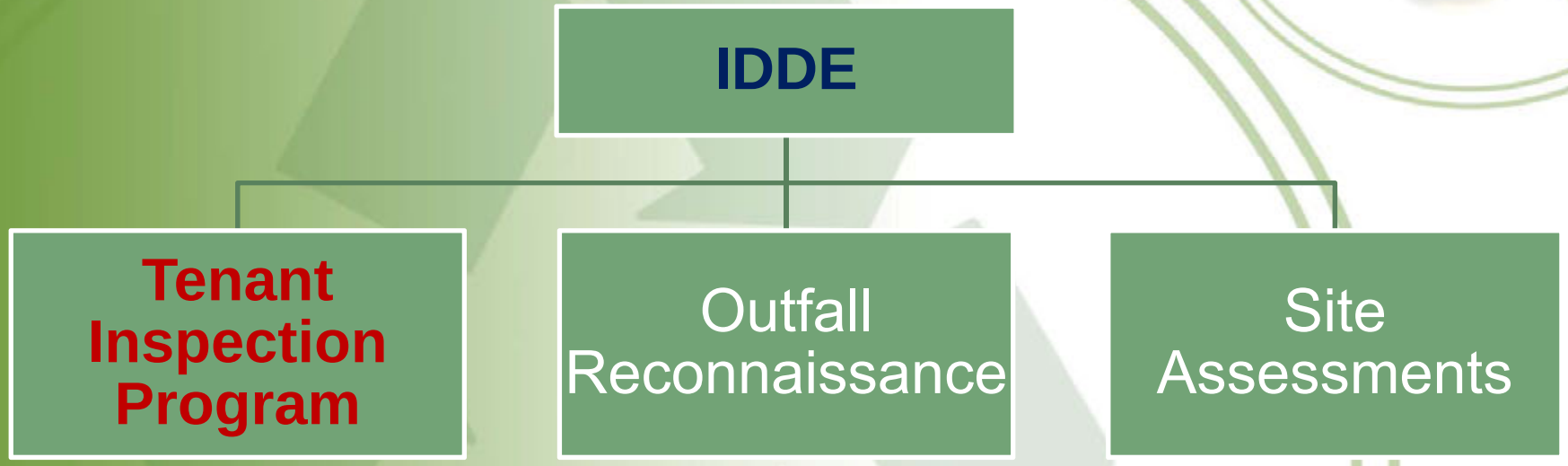
Outline

- HDOT Harbors SWMP
- Organization Chart
- Tenant Requirements and Types of Inspection
- Inspection Forms and Procedures
- Enforcement
- Others
- Q&A

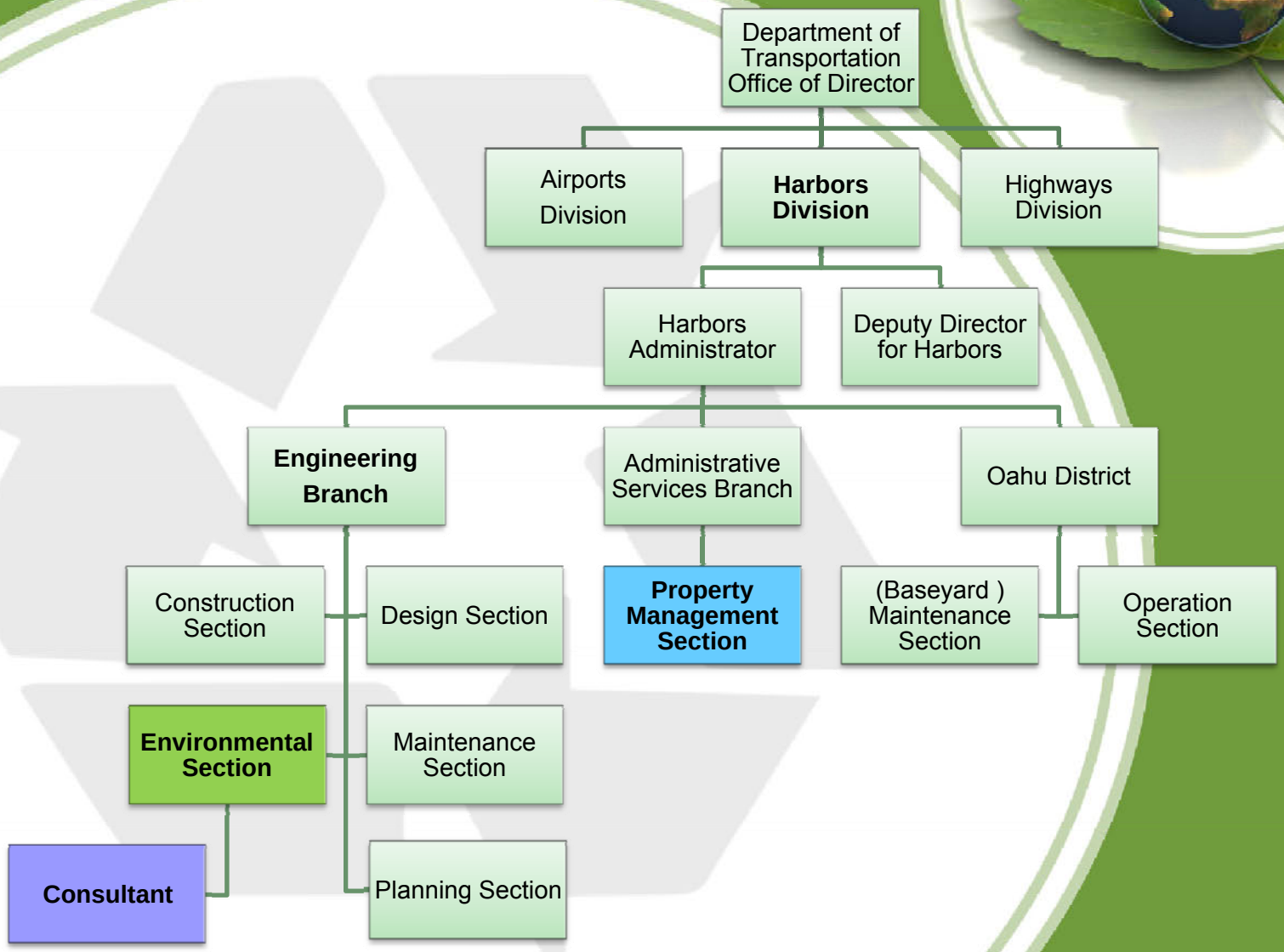
HDOT Harbors SWMP

- Public Education and Outreach
- Public Involvement/Participation
- **Illicit Discharge Detection and Elimination**
- Construction Site Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment
- **Pollution Prevention/Good Housekeeping**

IDDE Structure Chart (1.0)



Group Organization Chart



Tenant Requirements (1.3)

- All Harbors tenant lease agreements and RP include language stating that the tenant is responsible for compliance with all environmental laws and regulations.
- Regulated hazardous substances and marine pollutants are not allowed to be used, treated, stored, or disposed, unless they are incidental to normal operations of their business.
- Tenants desiring to develop improvement projects on Harbors property must obtain approval from Harbors prior to initiation of the project.

Inspection Types (2.2)

- **Initial** Site Inspection or New Tenant Inspection (within three months of occupancy; 2.2.1)
- **Routine** Inspection (2.2.2)
  - High: Semiannual
  - Medium: Annual
  - Low: Every five years + annual reconnaissance (2.2.3)
- **Final** Inspection (2.2.4)
- **Investigation** Inspection (2.2.5)
- **Follow-Up** Inspection (2.2.6)

Tenant Inspection Basics (4.1)

- Schedule at least one week in advance.
- Allowable non-SW discharges (4.2)
- Risk Ranking Criteria (4.3)
  - Low (≤ 5)
  - Medium (6 to 16)
  - High (>16 or 5 in certain individual criteria)
- Re-Evaluation

Inspection Forms

- High and Medium ranked Tenants
  - Facility Information (One Page)
  - Inspection Checklist (Two Pages)
  - Tenant Risk Ranking Criteria (Three Pages)
- Low ranked Tenants

Inspection Forms (cont.)

State of Hawaii Department of Transportation Harbors Division
Environmental Compliance, BMP, and P2 Inspection Checklist for Tenant

Harbor: _____ Date/Time: _____
Inspector(s): _____ Weather Conditions: _____

Type of Inspection: ☐ Regular Inspection ☐ Follow-up Inspection ☐ Final Inspection
☐ New Tenant Inspection - Date of Occupancy:

Tenant Business Name: _____
Tenant Permit(s): _____
Facility Location: _____
Facility Mailing Address: _____
Tenant Representative: _____
Phone Number: _____ Mobile Number: _____
Fax Number: _____ E-mail Address: _____
EPA ID No. (if any): IWDP No. (if any):

Inspection Forms (cont.)

No.	Inspection Item	Yes	No	N/A	Remarks
	Storage				
1	**SPCC Compliance**: Facility with an aggregate shell capacity of 1,320 gallons or more of petroleum products.				
2	**AST Containment**: ASTs are situated over an impervious surface, have adequate secondary containment and integrity protection, and containment drain valves are kept locked.				
3	**AST Overflow Protection**: Bulk product ASTs are equipped with overflow protection alarms or automatic shutdown pumps.				
4	**AST Malfunction**: Visible piping, tanks, and hoses in good condition (e.g., no exhibit signs of leakage, wear, or malfunction).				
5	**Oily Equipment**: Oily or leaking equipment is stored under cover or with drip pans. Drip pans are emptied or replaced as needed.				
6	**Storm Water Management**: Storm water accumulation in secondary containment is minimized, managed, disposed correctly, and logged.				
7	**Salvaged Equipment/Vehicle**: Fluids and batteries are removed from salvaged equipment/vehicle before storage.				
8	**Outdoor Material Storage**: Outdoor storage areas have coverings that prevent contact of these items with storm water. Materials are kept above the ground higher than the level of runoff.				
9	**Labeling**: Containers are properly labeled.				
10	**Compatibility**: Containers are stored in an organized manner, compatible with other stored materials, labeled correctly, and not stored past allowable holding times.				

Inspection Forms (cont.)

	General Observed BMPs						
40	General Housekeeping	☐ Excellent	☐ Good	☐ Average	☐ Fair	☐ Poor or Unacceptable	
41	Recordkeeping	☐ Excellent	☐ Good	☐ Average	☐ Fair	☐ Poor or Unacceptable	☐ Not Applicable
42	All personnel are well-trained	☐ Excellent	☐ Good	☐ Average	☐ Fair	☐ Poor or Unacceptable	
43	Need follow-up inspection	☐ Yes	☐ No				

Inspection Forms (cont.)

		Tenant Risk Ranking Criteria	Score
1	**Vessel Maintenance and Repair**		
	0	Neither maintenance nor repair activities are conducted on-site.	
	1	Maintenance and repair activities on any size vessel are conducted entirely indoors (with proper dust control BMPs), with no or minimal potential for discharge of pollutants.	
	2	Minor maintenance and repair (30 day or less duration) for small vessels is conducted in their berth (with proper dust control BMPs) with minimal potential for discharge of pollutants.	
	3	Maintenance and repair activities on large vessels are conducted outdoors and out of the water (with proper dust control BMPs), with minimal potential for discharge of pollutants.	
	4	Major maintenance and repair activities on any size vessel are conducted in a partially confined or unconfined area with moderate potential for discharge of pollutants.	
	5	Maintenance and repair activities on any size vessel are conducted in an unconfined area or in an area with significant potential for discharge of pollutants. (**Automatic trigger to high risk designation**)	
2	**Vessel Fueling**		
	0	No fuel transfer activities are conducted on-site.	
	1	Fueling of small vessel is conducted by a fueling company with proper spill containment and diversion.	
	2	Fueling of small vessel is conducted with spill containment and diversion.	
	3	Fueling of large vessel is conducted in designated area with spill containment and diversion.	
	4	Fueling of small vessel is conducted in areas WITHOUT spill containment and diversion.	
	5	Fueling of large vessels is conducted in areas WITHOUT spill containment or diversion. (**Automatic trigger to high risk designation**)	

Inspection Forms (cont.)

		housekeeping is in fair condition.	
	5	Activities are conducted outdoors and pose a significant threat to the environment. (***Automatic trigger to high risk designation***)	
14	**Lease Agreement and/or Revocable Permit Requirements**		
	0	Tenant appears to be in compliance with environmental requirements in their tenant lease or revocable permit.	
	5	Tenant is not in compliance with their revocable permit or lease. (**Automatic trigger to high risk designation**)	

Total Risk Ranking Score: 0

Tenant Risk Ranking Category: _____

Inspection Procedures (Attachment 10)

- Pre-inspection Preparation
- Entry
- Tenant Conference
- Inspection
- Documentation and Recordkeeping

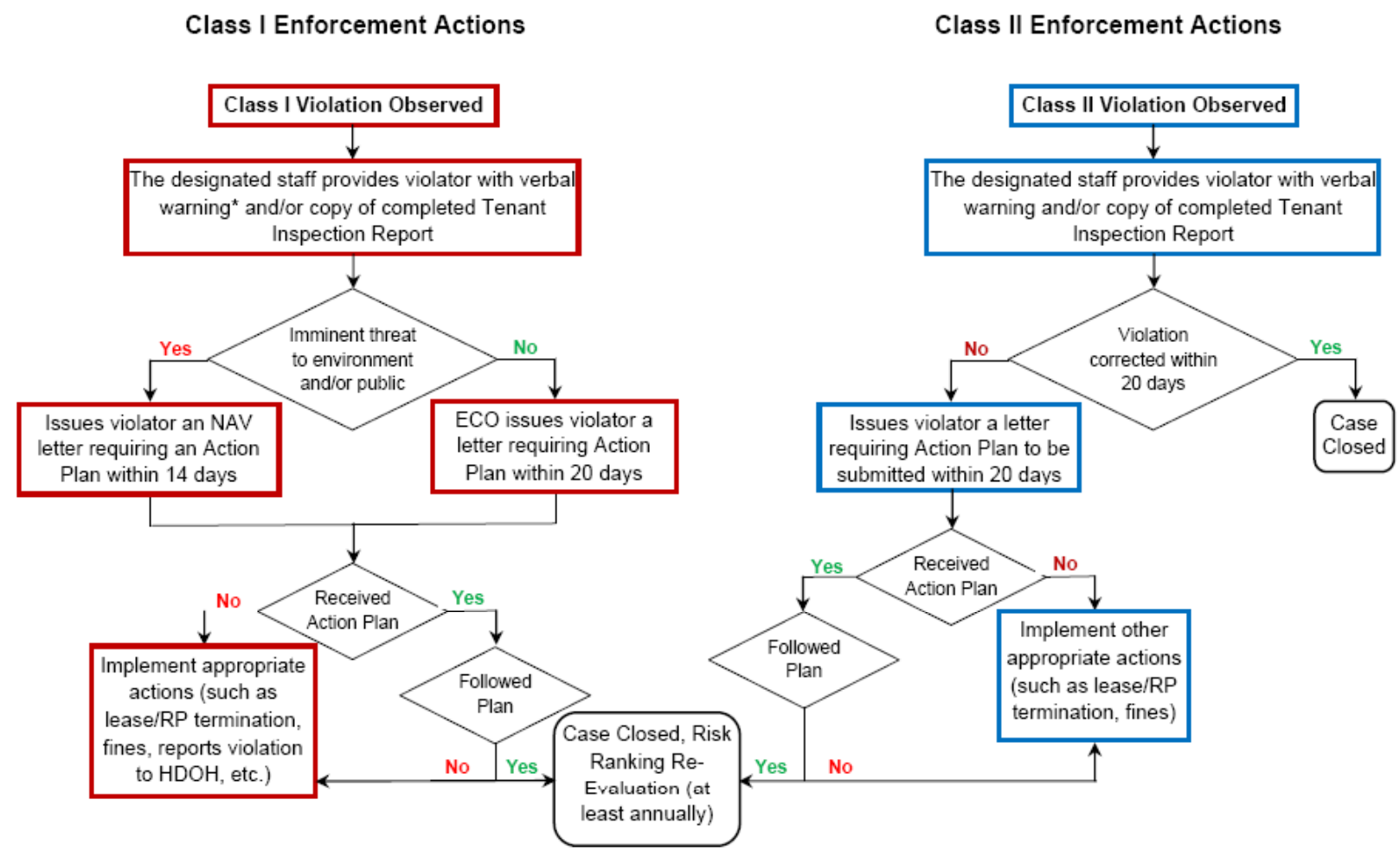
Typical Operations (Attachment 10)

- Vessel/Vehicle/Equipment Maintenance and Repair
- Vessel/Vehicle/Equipment Fueling
- Vessel/Vehicle/Equipment Washing
- Container Storage
- Material Storage and Handling
- Waste Handling and Disposal
- Pier, Building, and Ground Maintenance

Enforcement (5.0)

- Authority
  - HRS Title 15 Chapter 266
  - HAR Title 19 Chapters 41 to 44
- Violations – Class I and II Violations
- Enforcement Actions
  - Oral/Verbal Warning (5.2.1)
  - Written Warning (5.2.2)
  - Notice of Apparent Violation (5.2.3)
  - Issuance of Summon and Citation (5.2.4)
  - Notice and Finding of Violation Order (5.2.5)
- Description of Enforcement Steps (5.3)

Enforcement Action Flow Chart



* If there is an imminent threat to the environment or public health, the designated staff will inform violator to cease activity related to imminent threat immediately.

Examples of Illicit Discharge

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Examples of Illicit Discharge cont.

Others (in Attachments)

- BMPs developed by Harbors HAR-EE (**3**)
- SW Hotline Occurrence Tracking Form (to be used by HAR-EE; **5**)
- Suspected Illicit Discharge Reporting Form (**7**)
- List of Major Env Laws and Regulations (**9**)
- New Tenant Information Package (**11**)
- VGP (**12**)

Q&A

OUTFALL RECONNAISSANCE INVENTORY AND INSPECTION

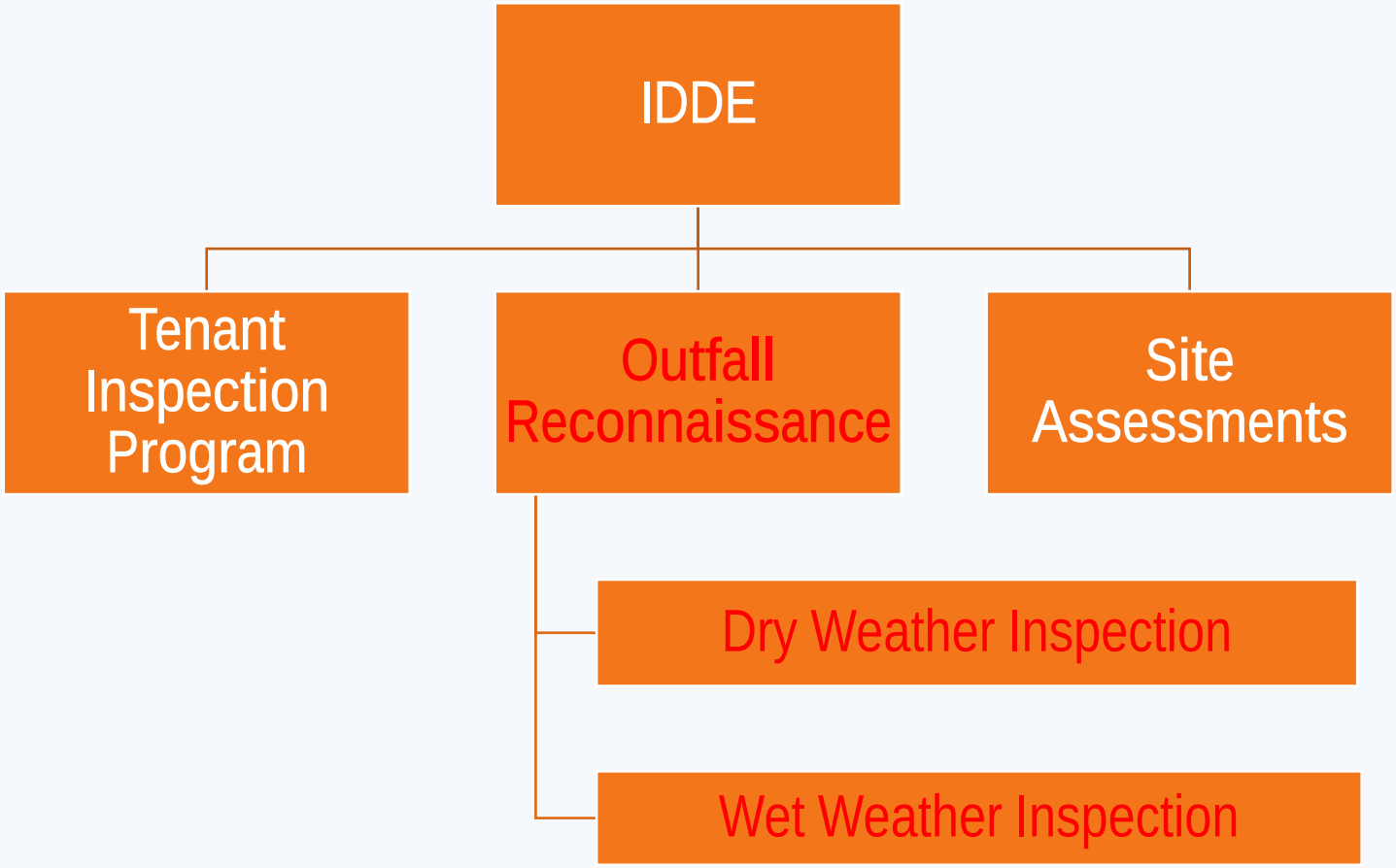
By HAR-EE
HDOT Harbors Division

May 19, 2014

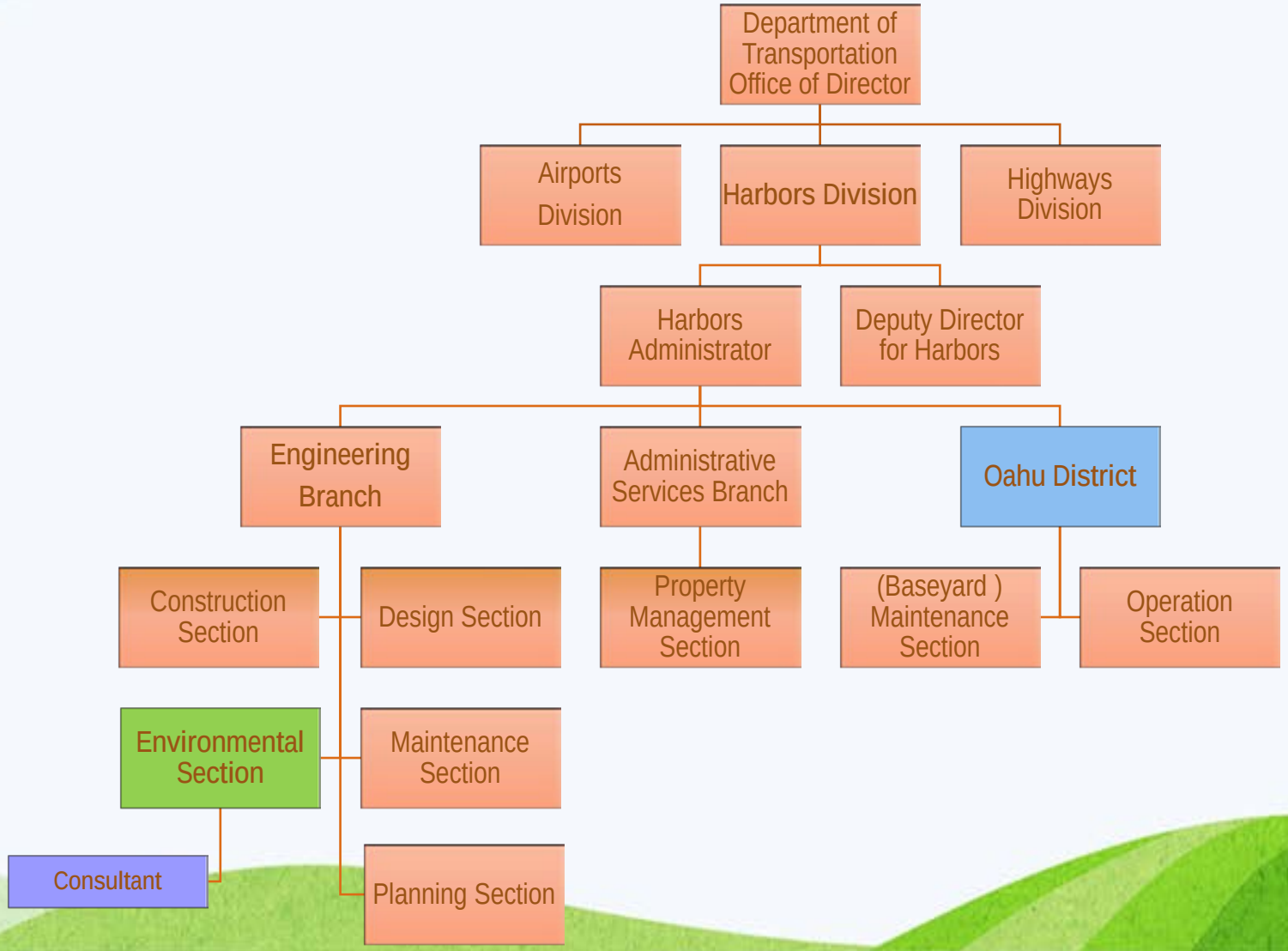
OUTLINE

- Introduction and Purpose
- Outfall Inventory
- Outfall Inspection and Documentation
- Enforcement
- Training and HASP

IDDE STRUCTURE CHART



Group Organizational Chart



PURPOSE OF ORII

- Establishing a framework for dry/wet weather inspections.
- Documenting basic physical characteristics of each outfall.
- Source tracking and elimination of potential illicit charges.

OUTFALL INVENTORY

- Map (please use the one provided by USACE)
- Approximately 119 outfalls at Honolulu Harbor and 39 outfalls at Kalaeloa Barbers Point Harbor.
- Recorded in Geo-database format.
- Updated annually.

OUTFALL INSPECTION?

OUTFALL INSPECTION?

OUTFALL INSPECTION?

OUTFALL INSPECTION?

OUTFALL INSPECTION - PREPARATION

- Prepare SSHSP
  - SAFETY FIRST, ALWAYS FIRST
  - Maintain communication at all times
- TWIC or CAC
- Scheduling and Notifications (District Office, and HTC if in water; avoid fueling operation areas)
- Preparing Field Equipment (Appendix A) and PPE (Appendix D)
- Field Logistics - Appoint Site Manager, Pre-notification, Mobilization
- Site Manager's Primary Responsibilities

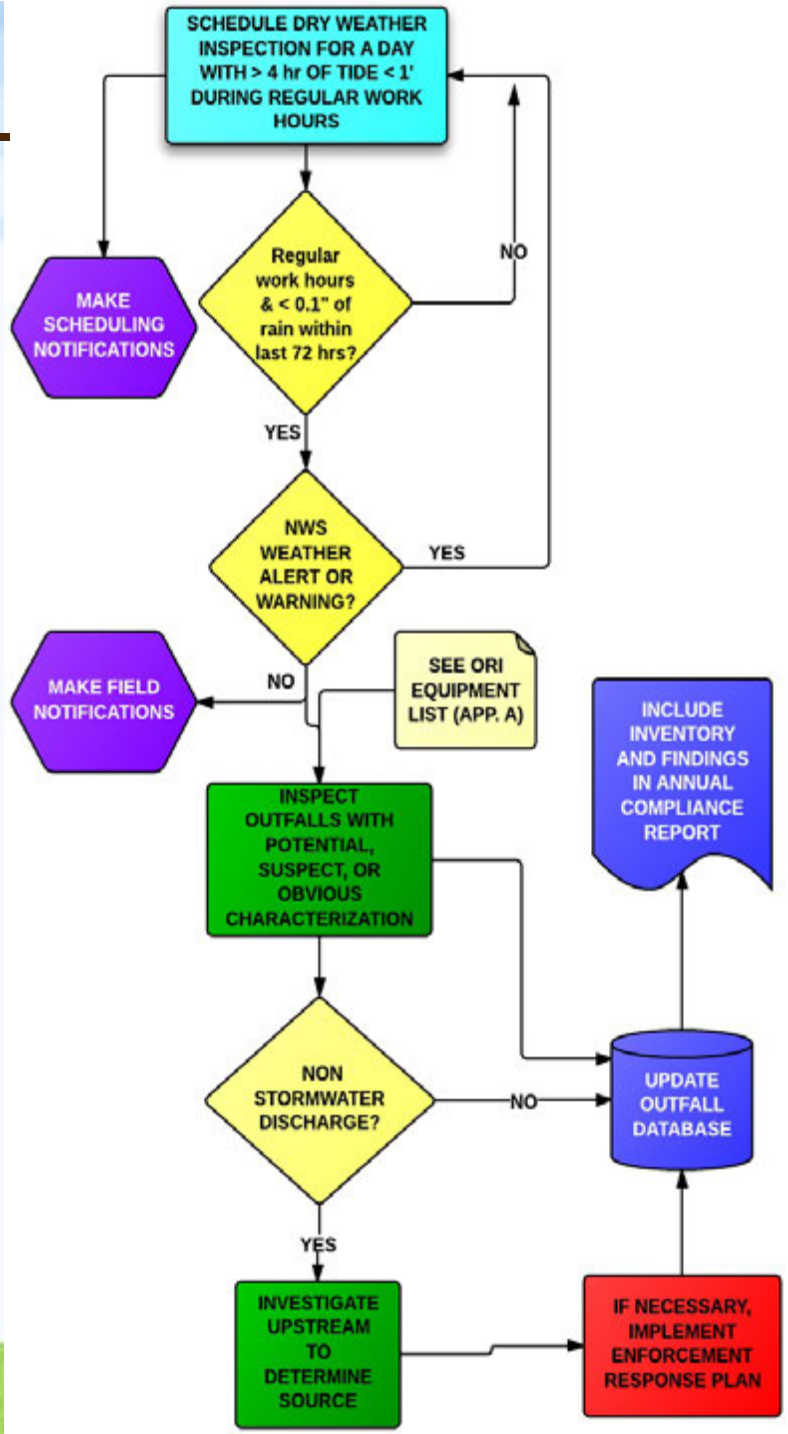
OUTFALL INSPECTION - DRY WEATHER (3.3)

- Criterion: < 0.1 inches of precipitation during a 72-hour period preceding an inspection
- Conduct annually on outfalls with "**potential**", "**suspect**", or "**obvious**" determined by the previous year's inspection findings. **Otherwise, biennially**.
- Consists of Kayak- and onshore- based inspections
- Observation of flows (3.3.1) and source identification (3.3.2)
  - Drainage Area Investigation
  - Storm Drain Network Investigation
- Documentation to be included in the ACR

MORE ABOUT KAYAK-BASED INSPECTION

- To be conducted during daylight hours and **low-tide condition** (below 1-foot MLLW).
- Inspection equipment should be inspected prior to field activities.
- Must be supported by an on-shore crew.
- Possible launching locations in Honolulu Harbor include Pier 5, Pier 23 (behind Harbors Police Building), Pier 36, and Sand Island Boat Launch Facility. Must be conducted SAFELY.
- Limited access (Figures 1 and 2).
- Unforeseen climate conditions.

FLOW CHART – DRY WEATHER (3.3)



EXAMPLE OF COMMUNICATION WITH HTC

ORIIP Personnel: “Aloha Tower, this is Harbors Engineering.”

HTC: “Harbors Engineering, this is Aloha Tower.”

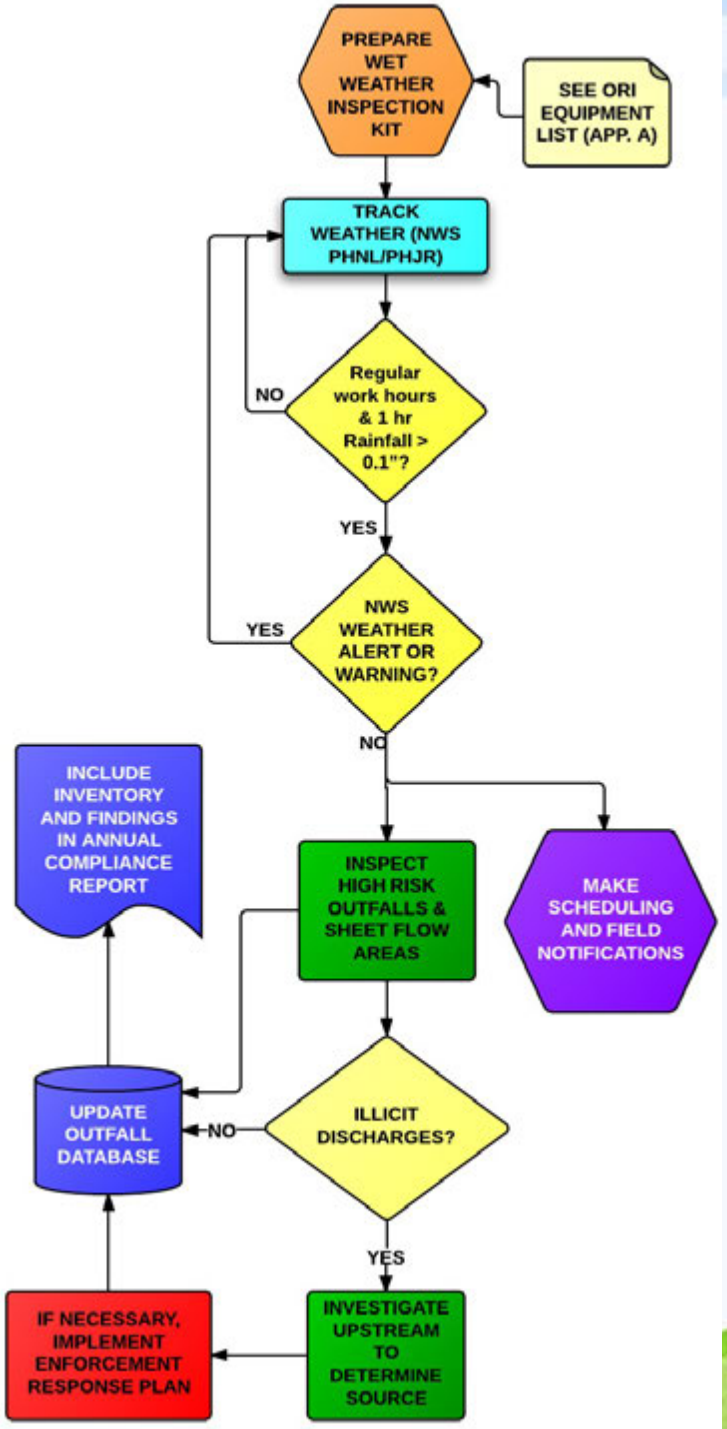
ORIIP Personnel: “Aloha Tower, Harbors Engineering would like to request to move from *Pier 10* to *Pier 24*.”

HTC: “Okay, Harbors Engineering, proceed to *Pier 24*.” (Note that their response varies depending on existing traffic situation at Honolulu Harbor.)

OUTFALL INSPECTION – WET WEATHER (3.4)

- Criterion: > 0.1 inches rainfall per hour is recorded, or use weather stations below.
  - Honolulu International Airport (Station ID 91182, PHNL)
  - Kalaeloa Airport (PHJR)
- Conduct annual inspection at identified high-risk outfalls during regular businesses hours FROM THE PIER SIDE.
  - High-risk tenant areas
  - Construction areas
- Weather constraints
- Documentation to be included in the ACR

FLOW CHART – WET WEATHER (3.4)



INSPECTION DOCUMENTATION

- ORIIP FORM (Appendix B)
- Potential pollutants and sources

COMMON DISCHARGES AND POTENTIAL SOURCES	OBSERVED DISCHARGE POTENTIAL CAUSES
Sediment	Construction activity without proper erosion and sediment controls Outdoor work areas or material storage areas
Oil	Fueling operations Vehicle or machinery maintenance activities
Sudsy discharge	Power washing of buildings Vehicle or equipment washing operations Mobile cleaning crew dumping Laundry or Cleaner greywater discharge
Grease	Restaurant sink drain connection to stormwater system
Sewage	Failing or leaking septic systems

ORIIP FORM (APPDX B)

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID:		Today's date / Time (Military):	
Investigators:			
Temperature (°F):	Rainfall (in.): Last 24 hours: _____ Last 72 hours: _____		
Latitutde:	Longitude:	GPS Unit:	GPS Landmark:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply): ☐ Industrial ☐ Commercial Other: _____		Known Industries: _____	

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☐ No *If No, Skip to Section 5*				
Flow Description (If present)	Constant: ☐ Trickle ☐ Moderate ☐ Substantial Tidal: ☐ Trickle ☐ Moderate ☐ Substantial				

ORIIP FORM (APPDX B)

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
☐Flow #1	Volume			
	Time to fill			
☐Flow #2	Flow depth		In	
	Flow width	0' "	Ft, In	
	Measured length	0' "	Ft, In	
	Time of travel		Sec	

ORIIP FORM (APPDX B)

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☐	Description of discharge source:			☐ Illicit Discharge (Trigger to Obvious)
Other Observations					

ORIIP FORM (APPDX B)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Sediment ☐ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations			

Section 6: Overall Outfall Characterization

☐ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ENFORMENT (4.0)

- If identified source is from a tenant site, follow TIM.
- If identified source is from a construction site, follow Construction manual.
- If identified source is a result of in need of drain cleaning, follow Oahu District O&M Plan.
- If identified source is from a site outside of HDOT Harbors jurisdiction, inform the adjoining jurisdiction or property owner in writing and copy HDOH.

TRAINING (5.0) AND HASP (6.0)

- Pre-mobilization meeting (5.0) + On-the-job training (5.1)
- Training Documentation (5.2)
- HASP (Appendix D)

Q&A

BMP Inspection Tracker

Matt Moore

Updated on: 12/18/2014

DOT Harbors			
Tenant	**Date**	**Construction Site**	**Date**
PSI	6/12/2014	Pier 35	6/17/2014
Matson	6/18/2014	KMR	8/29/2014
Kirby	7/9/2014	Pier 31 Shed Demo	9/17/2014
Rebecca's Collections	7/17/2014	KMR	10/2/2014
HNL Fire Department	9/11/2014		
Hawaiian Cement	10/19/2014		
PSI	11/7/2014		
Horizon	11/12/2014		
Sea Engineering	11/25/2014		
Pacific Fishing Supply	11/25/2014		
Matson	12/2/2014		
Young Brothers	12/19/2014		
Total Hours	*36*		*4*
Required	24		3 Inspections

Attachment 17. Tenant Risk Ranking and Inspection Summary

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Aala Produce, Inc.	Aala Ship Service	Recon	5/13/2014							(808) 522-0550, (808) 478-8732		Mr. Rodney Tamamoto Aala Produce, Inc. 869 North Nimitz Highway Honolulu, HI 96817-4517	Pier 32	Honolulu
AES Kalaeloa Venture, LLC		Regular	10/1/2014			Based on the results of the inspection, their facility was found in fair housekeeping condition with a total risk score of 8, which places this tenant into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. However, few deficiencies were observed. The items listed below require the Permittee's immediate attention and corrective actions: •□General Housekeeping – During the inspection, significant amount of residual coal dust was observed inside the rail track and trench drain nearby (Photo 22). Cleanup the coal dust more thoroughly and provide documentation to HDOT Harbors Division. •□Used Oil Storage – During the inspection, a 55-gallon used oil drum was left open and the drum was over half-full with used oil (Photo 12). Used oil is a combustible liquid and leaving the drum open for an extended period of time could allow ignitable vapors to accumulate in the immediate area. These vapors should not be inhaled by your workers for health reason. All drums containing petroleum products should be tightly closed while not in use. Please incorporate following recommended Best Management Practice(s) [BMP] into your operation: •□Harbors Environmental Hotline – Post the distributed "Storm Water Contacts" sign at a conspicuous place (e.g., employee's bulletin board) and keep Harbors notified, should you have any environmental related concerns.	Medium	8	06-Oct-14	(808) 682-3412; (808) 753-4245	0289-01-N (No NPDES Permit)	Ms. Sabrina Guanio AES Kalaeloa Venture, LLC 91-086 Kaomi Loop Kapolei, HI 96707	91-650 Malakole Rd	Kalaeloa
Aircraft Service International Group / Hawaii Fueling Facilities Corporation	ASIG/HFFC	Regular	12/24/2014			Based on the results of the inspection and additional information revised on January 2, 2015, the Permittee's facility was found in a good housekeeping condition with a total risk score adjusted to 1, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practice(s) [BMP]: • Harbors Stormwater Training – Continue to attend Harbors Tenant Annual Storm Water Awareness Training is mandatory for all Harbors tenants. Issues related to stormwater pollution awareness including regulatory background, Harbors NPDES program requirements, allowable discharges, definition of illicit discharge, Harbors construction and post-construction programs, stormwater drainage system protection, fueling activities, waste management, spill prevention and response, recommended BMPs, common source of stormwater pollution, common operations causing potential illicit discharges, tenant inspection program and related enforcement response program, and other environmental compliance measures applicable to Harbors, will be shared through this annual training session. Failure to fulfill this requirement will increase your facility's total risk ranking score and may place your facility on a higher risk category.	Low	1	29-Dec-14	(808) 833-3291 x29		Mr. Glenn Jinbo ASIG/HFFC 3201 Aolele Street Honolulu, HI 96819	Pier 51-A&B	Honolulu
Aloha Agricultural Consultants, Inc.	Niu Nursery	Recon	5/13/2014							(808) 845-5991, (808) 225-3507		Mr. Sidney Goo Niu Nursery P.O. Box 17220 Honolulu, HI 96817-5846	50 B Sand Island Access Rd	Honolulu
Aloha Cargo Agency Services, Inc.	Aloha Cargo Transport, Inc.; ACT	Recon	5/12/2014							(206) 892-2750; (808) 536-7033, (808) 748-8790		Mr. Thomas Crescenzi Aloha Cargo Agency Services, Inc. 677 Ala Moana Blvd., Suite 917 Honolulu, HI 96813	Pier 29	Honolulu
Aloha Container Sales & Rental, Inc.	ACSR	Recon	5/14/2014							(808) 843-8600, (808) 306-3748		Mr. Richard D. Preston II Aloha Container Sales & Rental, Inc. P.O. Box 30936 Honolulu, HI 96820	Keehi, across La Mariana	Honolulu
Aloha Tower Marketplace	AHI Aloha Associates, LLC; PM Realty Group, Aloha Tower Development Corporation (ATDC)	Recon	5/9/2014							(808) 544-1400; (808) 544-1454		Ms. Marlene Daley Aloha Tower Marketplace 1 Aloha Tower Drive, Suite 3000 Honolulu, HI 96813	1 Aloha Tower Drive	Honolulu
Amazon Construction Company, Inc.		Regular	10/31/2014			Based on the results of the inspection, the Permittee's facility was found in average housekeeping condition with a total risk score of 7, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. Few deficiencies were observed during the inspection. The Permittee is advised to take correction actions and implement following Best Management Practices: •□Revocable Permit and Outdoor Material Storage – Sorted stockpile aggregates were observed to be stored on-site (Photos 1 and 2), which is not consistent with the purpose of the Permittee's Revocable Permit, which states: "Parking end dump trailers when not in use." Based on the information provided by the Permittee's representative (Mr. Dustin Onaga), those stockpiles were temporarily stored on-site and would be removed from the lot upon the start of their next project(s). To remain compliant with its Revocable Permit, while stockpiles are temporarily stored on-site, the Permittee is advised to berm the perimeter of the open lot (especially, the low spots) and cover all stockpiles with plastic sheet or tarpaulin to minimize or prevent sediment and dust from being carried away off-site. •□Equipment Maintenance and Spill/Leak Prevention – Continue to maintain/monitor all heavy equipment parked on-site. Recommend creating and keeping a equipment maintenance log. Place drip pans or other absorbent materials underneath the equipment while parked on-site.	Medium	7	17-Nov-14	(808) 841-6595, (808) 864-9401		Mr. Duston Onaga 96-1255 Waihona Street Pearl City, HI 96782	KIPA	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
American Guard Services, Inc.		New	9/30/2014	New	10/6/2014	Based on the field observation and results of the inspection, their sites were found in good housekeeping condition with a total risk score of 4, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No threats to the environment and public health were observed during the inspection. One deficiency was noticed during the inspection. Please correct the item listed below: •□Harbors Tenant Training – No one from the Permittee has attended the training. Attend Harbors Tenant Stormwater Awareness Training, which is mandatory for all Harbors tenants. The Permittee is advised to implement the following recommended Best Management Practices: •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place (e.g., break room). •□General Housekeeping – Keep up good housekeeping practices.	Low	4	06-Oct-14	(808) 537-3201, (808) 609-5709		Mr. Thomas Szymanski American Guard Services, Inc. 197 Sand Island Road., Suite 202-2 Honolulu, HI 96819	Pier 2, 10, and 11	Honolulu
American Marine Corporation	American Workboats; (formerly DD-M Leasing Company, Inc.)	Regular	10/3/2014			Pier 60 Open Lot Based on the results of the inspection, their facility was found in fair housekeeping condition with a total risk score of 4, which places this tenant into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Outdoor Metal Storage – A large quantity of metal parts were staged outdoors without any cover (Photos 6 and 7). Metal parts, after contacting with rain water, become rusty and dissolvable in water, which could be easily carried away by runoff. When discharged to nearby surface water(s), the dispensed metal may impact environment because they are non-biodegradable. Cover metals as practical as possible. •□General Housekeeping - Keep up the good housekeeping practice(s)	Low	4	09-Oct-14	(808) 792-1181, (808) 479-3905; (808) 545-5190, (808) 479-5195, (808) 792-1183 (Direct line)		Mr. DC Carter American Marine Corporation 65 North Nimitz Highway, Pier 14 Honolulu, HI 96817	Pier 14, Pier 60 (Keehi)	Honolulu
Ameron International Corporation	Ameron Hawaii	Regular	10/31/2014			Based on the results of the inspection, the Permittee's facility was found in average housekeeping condition with a total risk score of 7, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. However, few deficiencies were observed during the inspection. Please correct the deficiencies listed below: •□Sediment and Dust Control – Portions of perimeter dust fence along the southwest corner of the facility are in deteriorated condition (Photo 22) and need to be replaced. Ameron acknowledged this deficiency and planned to have it fixed during the first/second quarter of next year. •□Oil Stain Cleanup – Oil stains were observed at several locations (Photos 12 and 16). Cleanup the oil stains and any other spills/leaks as soon as possible to avoid generating a sheen when it rains. Place absorbent sheet underneath vehicles/equipment parked on-site, while not in use. •□Uncovered pit/trench - During the inspection, a section of uncovered pit or trench inside one of the sheds (approximately five feet by three feet) was observed (Photo 14). This situation creates a fall hazard and needs to be addressed as soon as possible. Ameron acknowledged this safety concern and planned to take action immediately. •□Container Labeling/Marking - Properly label/mark all containers (Photo 4). If it is empty, mark it "EMPTY." In the meantime, the Permittee is advised to implement following recommended Best Management Practices: •□General Housekeeping – Continue good housekeeping practices. Repair or dispose of vehicle(s) with flat tires	Medium	7	17-Nov-14	(808) 266-2672; (808) 266-2640	HI0021075 (Sand Island), HIR10C759 (Pier 60, Construction)	Ms. Linda Goldstein Ameron International Corporation P.O. Box 29968 Honolulu, HI 96820-2368	Pier 60	Honolulu
Asphalt Hawaii	GLP Asphalt, LLC	Regular	12/5/2014			Based on the results of the inspection, the Permittee's facility was found in an average housekeeping condition with a total risk score of 11, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement the following Best Management Practices [BMPs]: •□SPCC Compliance – The most recent copy of the SPCC Plan on file with HDOT Harbors Division is dated March 10, 2009. As requested under 40 CFR 112.5(b), the SPCC plan needs to be reviewed and evaluated at least once every five years from the date your facility becomes subject to the SPCC rules. The Permittee is advised to update their SPCC plan to document the review and necessary changes. The updated Plan shall be reviewed and certified by a licensed Professional Engineer for it to be effectively satisfy the requirements specified in 40 CFR 112.3(d). •□General Housekeeping – Dispose of all scrap metals and empty 55-gallon drums on a timely basis (Photo 13). In the meantime, keep up the good routine housekeeping practices.	Medium	11	19-Dec-14	(808) 682-2490; (808) 479-5670; (808) 864-7000	HIR70D366	Mr. Edward Au Asphalt Hawaii P.O. Box 78 Honolulu, Hawaii 96810	91-550 Malakole St	Kalaeloa
Atlantis Submarines Hawaii, LLC	Atlantis Cruises and Atlantis Submarines	Regular	12/12/2014			Based on the results of the inspection, the Permittee's facility was found in an excellent housekeeping condition with a total risk score of 13, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. No imminent threat was observed during the inspection. The Permittee is advised to implement following Best Management Practice(s): •□Compliance with NPDES Permit – Continue to submit the required Discharge Monitoring Report[DMR] to HDOH and be compliance with NPDES permit conditions. Upon completion of next round of stormwater sampling, please provide HDOT Harbors Division one copy of DMR and associated sampling results. •□Used Oil Management – Review Hawaii Administrative Rules Title 11 Chapter 279 and be compliance with relevant regulations and rules. This chapter establishes used oil management requirements including definition of used oil; applicability, specifications, prohibitions; and standards for used oil generators, transportation, storage, tracking, residue management, reporting. •□Storm Drain Inlet Protection – Recommend placing fabric filter inside the on-site storm drain inlets (Photo 19) to minimize or reduce the potential pollutants from discharging into the harbor. •□Forklift Maintenance – Continue to monitor forklift for any sign of leaking condition and maintain them on a regular basis. While not in use, place drip pans or other absorbent material underneath to catch any leak/spill. It is also recommended that a forklift maintenance log be kept on-site. •□General Housekeeping – Keep up the good housekeeping practice(s)	Medium	13	19-Dec-14	(808) 832-6603, (808) 754-8130; (808) 832-6604	HI R80B138	Mr. John Chapman Atlantis Submarines Hawaii, LLC 1600 Kapiolani Boulevard, Suite 1630 Honolulu, Hawaii 96814	KMR 910; Pier 40	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
BEI Hawaii		Regular	10/8/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 8, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Hazardous Substance Storage, Recordkeeping, and Spill/Leak Reporting – The 630,000-gallon AST is equipped with an emergency shut-off device and a manual level gauge to help prevent overflow. The tank and pipeline have been labeled and visually inspected by Permittee's personnel regularly (i.e., weekly by general labor and monthly/annually by Operation Manager). Nearby storm drains were equipped with corrosion resistant drain seals. Please continue recordkeeping. In case of any reportable spill, leak, or other unforeseen releases, notify HDOT Harbors Division and other agencies immediately (i.e., within 24 hours). •□Tank Integrity Inspection – The most recent Ultrasonic Thickness Inspection was conducted on August 26 and 27, 2002, by LINLAY TESTING LABORATORIES, INC. contracted by BEI Hawaii. As reported, "No severe corrosion noted on tank floor, shell, and roof." Moreover, "Original wall and shell thickness was unavailable, so corrosion rates could not	Medium	8	14-Oct-14	(808) 532-7484, (808) 864-2615; (808) 532-7448		Mr. Chad Dias BEI Hawaii 311 Pacific Street Honolulu, HI 96813	Pier 32	Honolulu
City & County of Honolulu, Honolulu Fire Department		Final	9/11/2014			The tenant should complete the following before the facility is turned over to DOT: i. Consolidate lubricants, oils, paint thinner, spray cans and other petroleum based products into the shed containing the secondary containment pallet. ii. Properly dispose of trash from rubbish containers.				(808) 723-7129, (808) 861-5592		Ms. Michelle Freitas CCH, Honolulu Fire Department 111 North Nimitz Highway, Pier 15 Honolulu, HI 96817	Pier 15	Honolulu
Clean Islands Council		Recon	5/12/2014							(808) 536-5814; (808) 845-8465		Mr. Kim Beasley Clean Islands Council 179 Sand Island Access Road Honolulu, HI 96819-2224	Pier 35	Honolulu
Concrete Coring Company of Hawaii, Inc.		Regular	6/9/2014	Regular	12/4/2014	6/9/2014 Inspection Results: Based on the results of inspection, this tenant's facility was found in average housekeeping condition with a total risk score of 12, which places this tenant into the Medium category. This category of tenants is subject to be inspected annually. No immediate threats to the environment were observed during the inspection. No immediate threats to the environment were observed during the inspection. One deficiency was observed during the inspection. Please review the report and correct the item listed below: •□Harbors Training – Based on our records, the most recent training attended by representative(s) from your company was in 2010. Please note that attending Harbors Tenant Annual Storm Water Awareness Training is mandatory for all Harbors tenants. Issues related to stormwater pollution awareness including regulatory background, Harbors NPDES program requirements, allowable discharges, definition of illicit discharge, Harbors construction and post-construction programs, stormwater drainage system protection, fueling activities, waste management, spill prevention and response, recommended Best Management Practices [BMP], common source of stormwater pollution, common operations causing potential illicit discharges, tenant inspection program and related enforcement response program, and other environmental compliance measures applicable to Harbors, will be shared through this annual training session. Failure to fulfill this requirement will increase your facility's total risk ranking score and may increase your facility's risk ranking. The training invitation letter will be sent to all tenants at a later time. Please arrange your time accordingly and send at least one representative from your company to attend the training, and ensure to share information obtained through training with all your staff. In the meantime, please work toward implementing following recommended BMP •□Oil Stains – Oil stains were observed by the ground (Photos 5 and 15). Please continue to clean up oil stains on a timely basis and to the extent that it will not generate a sheen when it rains.	Medium	8	19-Dec-14	(808) 488-8222, (808) 330-7516;		Mr. Nathan Sabey Concrete Coring Co of Hawaii, Inc. 99-1026 Iwaena Street Aiea, HI 96701	KMR Near HTC and Pier 60 (KIPA)	Honolulu
Dedrick, Dewain A.	Bella Pietra	Recon	5/12/2014							(808) 587-7779, (808) 387-1368		Ms. Layla Dedrick Bella Pietra 701 North Nimitz Highway Honolulu, HI 96817	Near Pier 24	Honolulu
Dependable Hawaiian Express, Inc.	DHX, Inc.	Recon	5/12/2014							(808) 841-7311 ext. ; (808) 841-7311 ext. 1726, (808) 590-3186		Mr. Joe Vele Dependable Hawaii Express, Inc. 703 North Nimitz Highway Honolulu, HI 96817	Pier 21	Honolulu
Erik Builders, Inc.		Regular	10/8/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 7, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Preventive Maintenance – Conduct regular maintenance on forklift, oil-containing equipment, and company vehicle(s) (Photos 7 and 8). Recommend placing drip pans or other absorbent materials underneath to catch any spill/leak. Also, recommend keeping a forklift maintenance log on-site. •□General Housekeeping – Continue the good housekeeping practice(s)	Medium	7	14-Oct-14	(808) 845-7736		Mr. James M. Sakata Erik Builders, Inc. 50-CC Sand Island Access Road Honolulu, HI 96819	Keehi	Honolulu
Frank P. White Jr. Properties	Container Storage Co.	Recon	5/12/2014	New	9/9/2014	Based on the field observation and results of the inspection, their site was found in good housekeeping condition with a total risk score of 1, which places this tenant into the Low Risk category. This category of tenants is subject to be inspected every five years. No threats to the environment and public health was observed during the inspection. The Permittee is advised to implement the following recommended Best Management Practices: •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place (e.g., employee's bulletin board). •□General Housekeeping – Keep up good housekeeping practices. Properly mark the 5-gallon bucket with its content (Photo 2).	Low	1	24-Sep-14	(808) 841-5555		Mr. Frank White, Jr. Container Storage Co. of Hawaii, Ltd. 2276 Pahounui Drive Honolulu, HI 96819	(Formerly KMR 924); KIPA (Pier 60)	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Fresh Island Fish Company, Inc.	Frersh Island Fish Company, LLC	Regular	6/5/2014	Regular	12/3/2014	6/5/2014 Inspection Result: Based on the results of inspection, Fresh Island Fish Company, Inc. was found in good housekeeping condition with a total risk score of 8, which places this tenant into the Medium category. This category of tenants is subject to be inspected annually. General housekeeping on-site has been improved greatly. Copies of Best Management Practices [BMP] flyers developed by Harbors on washing activities were distributed to the tenant representative. No immediate threats to the environment were observed during the inspection. One deficiency was observed during the inspection. Please review the report and correct the item listed below: •□Oil Stains – Oil stains were observed by the grease storage container (Photo 4). Please continue to clean up oil stains on a timely basis and to the extent that it will not generate a sheen when it rains. Please work toward implementing following recommended Best Management Practices: •□Vehicle/Equipment Washing - Vehicle/Equipment washing (on Harbors Property) without proper containment and without prior consent from Harbors is strictly prohibited. Rinsing residual fish product from the company vehicle to eliminate malodorous condition as a common industrial hygiene is permitted, as long as all discharges are collected and disposed through City Sewer System. Please be aware that rinsing dirty or other potential pollutants off vehicle/equipment is strongly prohibited. •□Spill/Leak Prevention – Please continue to monitor equipment/vehicles for any sign of leaking condition and maintain them on a regular basis (Photos 3 and 6) and place drip plans or other absorbent material underneath to catch any leak/spill, while not in use. 12/3/2014 Inspection Results: Based on the results of the inspection, the Permittee's facility was found in a good housekeeping condition with a total risk score of 4, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practices: •□Forklift Maintenance – Continue to monitor company vehicles and forklifts for any sign of leaking condition and maintain them regularly. Place drip pan or other absorbent material underneath them, while not in use. •□General Housekeeping – Keep up the good routine housekeeping practices.	Low	4	19-Dec-14	(808) 831-4911, (808) 479-0607		Mr. Derek Higa Fresh Island Fish Company, Inc. 1135 North Nimitz Highway Honolulu, HI 96817	Pier 37/38	Honolulu
Friends of Falls of Clyde		Recon	5/9/2014							(808) 753-3311; (808) 543-9311, (808) 543-9357		Mr. Bruce Mcewan Friends of Falls of Clyde P.O. Box 4674 Honolulu, HI 96812-4674	Pier 7	Honolulu
Friends of Hokule'a & Hawai'iloa		Regular	6/19/2014	Regular	11/19/2014	Based on the results of the inspection, the Permittee's facility was found in an average housekeeping condition with a total risk score of 10, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practices: •□Forklift Maintenance – Monitor forklift or other oil-containing equipment for any sign of leaking condition and maintain them regularly. Place drip pan or other absorbent material underneath the forklift, while not in use. Recommend creating and keeping a forklift maintenance log on-site. •□General Housekeeping – Continue to improve general housekeeping. Shavings debris from vessel repair and maintenance activities shall be clean up on a timely basis (e.g., by the end of each working day).	Medium	10	21-Nov-14	(808) 256-1841		Mr. Jay Dowsett Friends of Hokule'a & Hawai'iloa 1329 Maleko Street Kailua, HI 96734 or PO Box 696 Kailua, HI 96734	Pier 60	Honolulu
Fukunaga, Paul N.	P.F. Marine	Recon	5/13/2014							(808) 842-1330, (808) 220-9425		Mr. Paul N Fukunaga P.F. Marine 1391 Haloa Drive Honolulu, HI 96818-1907	50 E Sand Island Access Rd.	Honolulu
Gillis, Eugene	Excavation Services	Regular	10/28/2014	Regular	11/13/2014	Based on the results of the inspection, the Permittee's facilities were found in average housekeeping condition with a total risk score of 20, which places this Permittee into the High Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. However, few deficiencies and/or violations were observed during the inspection. Please make correction to the items listed below: •□Revocable Permit and Hazardous Material Storage – Small quantities of potentially hazardous substances (e.g., used oil, paint thinner, hydraulic oil; Photos 4, 8, 13, and 25) were found to be stored on-site. This is a violation of current RP issued for the site, which states in the Purpose - "Storage of Hazardous Material is prohibited." To comply with the RP, please remove all hazardous materials off-site ASAP. In the meantime, please properly label/mark all 55-gallon drums and equipment them with secondary containment. Inattention to this requirement could lead to the termination of the Permittee's revocable permits. A follow-up inspection is necessary. •□Harbors Training – Attend Harbors Annual Stormwater Awareness Training, which is mandatory for all Harbors tenants. Additionally, the Permittee is advised to implement following recommended Best Management Practices: •□Forklift/Equipment Maintenance – Continue to maintain the forklift regularly. Recommend creating and keeping a forklift maintenance log on-site. Place drip pans or other absorbent materials underneath the forklift/equipment while not in use (Photo 23). •□Outdoor Metal Storage – Cover all metals stored outdoors (Photo 14). •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place on-site. •□General Housekeeping – Continue housekeeping practices. Remove derelict items off-site on a regular basis (Photos 10, 11, 12, and 22).	High	20	31-Oct-14	(808) 383-1959		Mr. Eugene Gillis Excavation Services 5928 Kalanianaole Highway Honolulu, HI 96821	Keehi (Pier 60)	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Grace Pacific Corporation, LLC	GP Kalaeloa HMA Plant	New	8/26/2014			Grace Pacific Kalaeloa HMA Plant was acquired by HDOT Harbors Division on January 1, 2013. Based on the results of the new tenant inspection, their facility was found in average housekeeping condition with a total risk score of 12, which places this tenant into the Medium category. This category of tenants is subject to be inspected annually. No immediate threats to the environment were observed during the inspection. Please work toward implementing following recommended Best Management Practices: •□Oil Stain Cleanup and Oily Part/Equipment Storage – Store any oily/leaking part/equipment under cover or with absorbent sheets underneath to catch any spill/leak (Photo 7). In the meantime, please clean up any oil stains on the ground to the extend so that it will not generate a sheen when it rains (Photos 7 and 21). •□Hazardous Material Storage – Cylinders of oxygen and acetylene were stored next to each other at the time of inspection (Photo 10). Note that both OSHA and NFPA recommend that oxygen and acetylene cylinders be stored at a minimum distance of 20 feet (6 m) or be separated by a noncombustible barrier of at least 5 feet high. Check on their SDS on storage requirements. Ensure that all chemicals are stored in the way that they are compatible with each other, and properly label and/or mark their containers (Photos 3 and). If it is empty, mark it "EMPTY." (The 330-gallon IBC was removed off-site, Photo 4; and the tank (staged at the south end of the Plant) was marked "EMPTY" - shown on photo taken on 9/11/2014).) •□Outdoor Material Storage – Cover metals (stored outdoors) to reduce their contact with stormwater, so as to minimize the pollutants being generated (Photo 15). (Metals were covered - shown on Photo 16 taken on 9/11/2014).)	Medium	12	19-Sep-14	(808) 203-2805, (808) 348-4895	HI R80D546	Ms. Jamie Feldhacker P. O. Box 78 Honolulu HI 96810	Shark park	Kalaeloa
Hawaii Maritime Center		Recon	5/8/2014							(808) 847-3511, (808) (808) 392-5230		Mr. Donald Bell Hawaii Maritime Center 1525 Bernice Street Honolulu, HI 96817	Pier 7	Honolulu
Hawaii Painting & Wallcovering, Inc.		Final	8/22/2014			Final inspection. No follow-ups are needed.	Low	2	23-Sep-14	(808) 479-6825, (808) 590-9144		Mr. Brian Tajiri Hawaii Painting & Wallcovering, Inc. P.O. Box 17038 Honolulu, HI 96817-0038	Keehi (Pier 60)	Honolulu
Hawaii Stevedores, Inc.		Regular	11/5/2014			Place absorbent materials and/or drip pans beneath forklifts while not in use.	Medium	14		(808) 842-5389, (808) 527-3415, (808) 927-2740	R80D538 (Pier 1)	Mr. Frank Rozneski Hawaii Stevedores, Inc. 1601 Sand Island Parkway Honolulu, HI 96819	Piers 1	Honolulu
Hawaiian Aqua Products, Inc.	Foo Lim and Sons	Regular	12/16/2014			Based on the results of the inspection, the Permittee's facility was found in an average housekeeping condition with a total risk score of 11, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practice(s): •□Compliance with NPDES Permit – Continue to submit the required Discharge Monitoring Report[DMR] to HDOH and be in compliance with NPDES permit conditions. Please provide HDOT Harbors Division one copy of the DMR and associated sampling results. •□Forklift Maintenance – Continue to monitor forklift for any sign of leaks and maintain it on a regular basis. •□General Housekeeping – Continue to improve general housekeeping	Medium	11	22-Dec-14	(808) 521-5468	HIR20A196	Mr. Yal M. Lim 1130 Wilder Avenue, Suite 102 Honolulu, HI 96822	Keehi	Honolulu
Hawaiian Catamaran Multihull Design	Kirkwood, Clarke	Regular	6/25/2014	Regular	12/9/2014	6/25/2014 Inspection Results: Based on the results of inspection, this tenant's terminal at Sand Island was found in fair housekeeping condition with a total risk score of 31, which places this tenant into the High category. This category of tenants is subject to be inspected semiannually. No immediate threats to the environment were observed during the inspection. A few violations and deficiencies were observed during the inspection. Please correct the items listed below: •□Trench Soil Sampling – Based on observation and evaluation from past inspections, soil at infiltration areas (two locations; Photos 5 and 10) may be environmentally impacted. THIS IS A POTENTIAL VIOLATION OF TENNANT'S REVOCABLE PERMIT (PROVISION No. 10). The tenant has been requested to submit a soil Sampling and Analysis Plan [SAP] for review and implementation upon approval. Harbors has approved the revised SAP this March. However, no follow-ups has been conducted by tenant to date. Please initiate the testing of the impacted soil promptly and finish soil sampling, and keep Harbors noticed of such action. An authorized representative by Harbors must present during the soil sampling. A complete soil sampling report must be provided to Harbors Division within 45 days upon sampling. •□Structural Compliance – There are structures on the Premises that have not received Harbors approval. THIS IS A VIOLATION OF TENANT'S REVOCABLE PERMIT (PROVISION No. 13). The improvement and alterations on 2nd level, which are "substantial" and are accessed by stairways (Photos 19 and 20), which require "structural" consideration by a licensed professional to certify the integrity of the structure, or otherwise need to be removed from the premises. All Occupational Safety and Health Administration [OSHA] concerns need to be addressed. Tenant was noticed of this violation on several occasions. •□Hazardous Material Storage and Revocable Permit – A list of potentially hazardous substances (e.g., solvent-based paint, lacquer, acetone) are stored and/or used on the premises (Photos 11 to 16). THIS IS A VIOLATION OF TENANT'S REVOCABLE PERMIT (PROVISION No. 26.H). Tenant has been noticed of this violation on several occasions. However, up to date, Harbors have not received any permit application from the tenant. •□Spill Kit – Equipment fueling on small scale is conducted on-site (Photo 7). However, no spill kit and containment were setup nearby. Please keep a spill kit on-site at all times and have it replenished when necessary. Please work toward implementing following recommended Best Management Practices: •□Vessel Repair/Maintenance – At the time of the inspection, a catamaran to be repaired was setup above the trench	High	25	19-Dec-14	(808) 306-6012		Mr. Matt Buckman Hawaiian Catamaran Multihull Design 50-C Sand Island Access Road Honolulu, HI 96819 5503 Kamehameha Highway Kaunakakai, Hawaii 96748	KMR 928E (?) Keehi	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Hawaiian Cement		Regular	10/16/2014			Areas for Improvement Hawaiian Cement should work toward implementing/maintaining the following Best Management Practices (BMP): i. Photo Log #6 – cement tailings should not be stored or stockpiled on bare soil; and ii. Photo Log #1 – all used oil containers should be covered and labeled properly. Notes and Recommendations During the inspection, the following notes were discussed: i. Photo Log #4 – an oil absorbent pad should be placed underneath the forklift, while not in use. ii. Photo Log #11 – area where trenches discharge into harbor along the northern portion of Pier 7 have accumulated fine sediments. The source of sediments has been identified as more than just Hawaiian Cement's activities (i.e., other KBPH users and tracking from bare sediment onto the pier deck). This area was noted to be a concern; Harbors is looking into option of including the discharge point in the regular cleaning schedule. Hawaiian Cement is still responsible for cleaning the rail trench regularly.	Medium	8	22-Oct-14	(808) 532-3407, (808) 330-3910; (808) 673-4208, (808) 330-3906		Mr. Dane Wurlitzer Hawaiian Cement 99-1300 Halawa Valley Street Aiea, HI 96701-3289	91-055 Kaomi Loop	Kalaeloa
Healy Tibbitts Builders, Inc.		Recon	5/29/2014							(808) 682-6104, (808) 368-1581		Mr. Glen Toyama Healy Tibbitts Builders, Inc. 99-994 Iwaena Street, Suite A Aiea, HI 96701	Malakole St.	Kalaeloa
Heumann, James	Wind & Sea Charters	Recon	5/15/2014							(808) 220-7675		Mr. James M. Heumann P.O. Box 8672 Honolulu, HI 96830	Pier 34	Honolulu
Honolulu Marathon Association		Recon	5/9/2014							(808) 946-0539; (808) 255-2602; (808) 255-2600		Mr. Ronald Chun Honolulu Marathon Association 3435 Waialae Ave Suite 208 Honolulu, HI 96826 1635 Citron Street Honolulu HI 96826	Pier 2, gated area on right at first intersection on Forrest St.	Honolulu
Horizon Lines, LLC		Regular	11/12/2014			Areas for Improvement: Horizon should work toward implementing/maintaining the following Best Management Practices (BMP): 1. Photo 8, during maintenance activities, visually impacted vehicle parts with petroleum were stored on bare ground surface in the forklift maintenance shop area. Maintenance personnel should be trained to practice good housekeeping by placing parts on cardboard, plastic sheeting, petroleum absorbent material or another type of physical barrier. 2. Photo 10, two active petroleum leaks were observed during the inspection. These leaks were not contained and allowed to drip onto the bare ground surface. Horizon personnel should utilize petroleum absorbent materials to address this issue. 3. Photo 12, an open material storage bin was being stored above a grated drain inlet near the crane operations building. The bin was carrying petroleum impacted material. Horizon personnel should avoid storing potential storm water pollutants on the top or near any open drainage inlet. As a note, general housekeeping around the property should be conducted as a proactive measure to prevent potential illicit discharges. General housekeeping around the tenant premises was established as fair condition. FOLLOW-UP ACTIONS: Since the date of the inspection, Horizon has sent photo documentation (Corrected Action Photo Log) showing corrected actions as follows: 1. Photo 13, on 11/12/2014 Horizon provided photo documentation of the material storage bin removed from the drainage inlet location. 2. Photo 14, on 11/12/2014 Horizon provided photo documentation of the two petroleum leaks being addressed with petroleum absorbent materials.	High	20	19-Dec-14	(808) 842-5389; (808) 842-5370	HI R80B909	Mr. Frank Roznerski Horizon Lines, LLC 1601 Sand Island Parkway Honolulu, HI 96819	1601 Sand Island Parkway (Pier 51A)	Honolulu
HPBS, Inc.		Recon	5/15/2014							(808) 532-7233		Ms. Fay Leong HPBS, Inc. P.O. Box 721 Honolulu, HI 96808-0721	Pier 19	Honolulu
Ishikawa, Norman & Dolores	Norman's Tractor Service	Regular	11/26/2014			Based on the results of the inspection, the Permittee's facility was found in an average housekeeping condition with a total risk score of 9, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practices: •□Forklift Maintenance – Monitor forklift or other oil-containing equipment for any sign of leaking condition and maintain them regularly. Cleanup any spill/leak on a timely basis (Photo 10). Place drip pan or other absorbent material underneath the forklift, while not in use. Recommend creating and keeping a forklift maintenance log on-site. •□General Housekeeping – Continue to improve general housekeeping.	Medium	9	19-Dec-14	(808) 778-1084; (808) 689-3644, (808) 778-0344; (808) 218-9824		Ms. Theresa Alcosiba Norman's Tractor Service P.O. Box 2280 Ewa Beach, HI 96706	Keehi	Honolulu
Island Beach Activities		Recon	5/9/2014							(808) 223-8735; (808) 946-7490		Mr. John Salvio Island Beach Activities P.O. Box 8181 Honolulu, HI 96830	Pier 2	Honolulu
Island Movers, Inc.	Hawktree International	Final	8/5/2014			The tenant should complete the following before the facility is turned over to DOT: i. Ensure that the pallet of batteries is removed. ii. Pump out the septic tank, as necessary.				(808) 392-8830, (808) 832-4000	HIR80A506	Mr. Patrick Hee Island Movers, Inc. P.O. Box 17865 Honolulu, HI 96817	Pier 42	Honolulu
ISS Marine Services, Inc.	Inchcape Shipping	Recon	5/15/2014							(808) 538-6863, (808) 218-2188		Ms. Ali Wang ISS Marine Services, Inc. Foreign Trade Zone Number 9 521 Ala Moana Boulevard, Suite 256 Honolulu, HI 96813	Pier 1	Honolulu
Jas W. Glover, Ltd.		Recon	5/15/2014							(808) 591-8977 ext. 321	HIR70C472	Mr. Keola Goo Jas W. Glover, Ltd. P.O. Box 579 Honolulu, HI 96809	Behind 248 Sand Island Access Rd.	Honolulu
Jems Enterprises, LLC	Hawaiian Ice Company	Regular	10/14/2014			i. Cover metal pipes located outside with a tarp or water resistant material. ii. Place absorbent material beneath forklifts while not in use.	Medium	9	20-Oct-14	(808) 538-6918 x107; (808) 265-3291		Mr. Marshall Joy Jems Enterprises, LLC 1125 North Nimitz Hwy Honolulu, HI 96817	Pier 38	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
JFC International, Inc.	Japan Food (Hawaii), Inc.; Davenport Hawaii Partners, LP	Recon	5/15/2014							(808) 537-9528		Ms. Toshiaki Wada JFC International 887 North Nimitz Highway Honolulu HI 96817-4517	Pier 34	Honolulu
Kagami, Inc.		Regular	11/17/2014			Based on the results of the inspection, the Permittee's facility was found in average housekeeping condition with a total risk score of 3, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement the following Best Management Practices: •□Equipment Maintenance and Spill/Leak Prevention – Continue to maintain/monitor all vehicle(s) and fork-lift(s) parked on-site. Recommend creating and keeping a fork-lift maintenance log on-site. Place drip pans or other absorbent materials underneath the fork-lift(s), while not in use. •□General Housekeeping – At the time of the inspection, the Permittee is the process of re-organizing their equipment, tools, and materials stored inside the warehouse. These items were scattered around. The overall general housekeeping is in fair condition and needs to be improved. •□Harbors Training – Continue to attend Harbors Annual Stormwater Awareness Training, which is mandatory for all Harbors tenants.	Low	3	18-Nov-14	(808) 523-5700; (808) 330-3379		Mr. Wayne Kagami Kagami, Inc. P.O. Box 17129 Honolulu, HI 96817-0129	Pier 21	Honolulu
Kirby Offshore Marine, LLC	(Formerly Uaukewai Diving, Salvage & Fishing, Inc.) Formerly known as K-Sea Transportation, Hawaii Division; Kirby Offshore Marine Hawaii, LLC; Kirby Offshore Marine Hawaii, INC.	Regular	7/9/2014	Regular	12/8/2014	7/9/2014 Inspection Results: A follow-up inspection was conducted on July 25, 2014. Based on the results of these inspections, this tenant's facilities on Piers 21 and 25/26 were found in average housekeeping condition with a total risk score of 18, which places this tenant into the High category. This category of tenants is subject to be inspected semiannually. No immediate threats to the environment were observed during the inspection. A few violations and deficiencies listed below were observed during the regular inspection. A follow-up inspection was conducted to ensure those issues were properly addressed. A combined inspection report is enclosed. •□Hazardous Material Storage and Revocable Permit – A list of potentially hazardous substances (e.g., solvent-based paint, petroleum product) are stored at Warehouse No. 6 Cage No. 2 (Photos 18 and 20). THIS IS A VIOLATION OF TENANT REVOCABLE PERMIT H-01-2249 (PROVISION 26.A). Please remove all potentially hazardous substances from this location. (As observed on July 25, 2014, the tenant relocated those potentially hazardous substances (Photos 25 and 26) to their warehouse on Pier 21). •□Harbors Tenant Training – Based on our records, nobody from your company have attend Harbors Annual Tenant Storm Water Pollution Prevention Awareness Training since 2010. Please attend this mandatory training. Failure to do so may result in a higher risk category and score. On July 25, 2014, the tenant representatives (Mr. Matthew Lewis and Mr. James Pontin, Jr) were informed of this year's training schedule. Please work toward implementing following recommended Best Management Practices: •□Forklift Maintenance – Please continue to monitor equipment/vehicles for any sign of leaking condition and maintain them on a regular basis and place drip plans or other absorbent material underneath to catch any leak/spill, while not in use. It is also recommended that a forklift maintenance log be kept on-site. •□EPA Identification Number (aka RCRA ID Number) – This tenant is registered as Conditionally Exempt Small Quantity Generator. According to tenant, the generated used oil has been regularly disposed of by PENCO (Photo 10). Please regularly inspect used oil storage area, label/mark all containers properly, and continue to stay compliance with EPA's RCRA regulations. (As observed on July 25, 2014, empty drums were marked "Empty" (Photo 25) and used oil containers were marked "USED OIL" with starting accumulation date (Photo 27)). •□Harbors Environmental Hotline – Please post the enclosed "Storm Water Contacts" sign at a conspicuous place	Medium	15	19-Dec-14	(808) 462-4215 (Direct), (808) 462-4200 (Office), (808) 292-3231 (Cellular)		Mr. Matthew Lewis Kirby Offshore Marine, LLC Pier 21 Honolulu, HI 96817	Pier 21	Honolulu
Lansdown, Ian J.	Hawaii's Sailing Center; Ian J. Lansdown	Regular	11/19/2014			Based on the results of the inspection, the Permittee's facility was found in a poor housekeeping condition with a total risk score of 16 and a score of 5 for Criterion No. 14 (an automatic trigger to high risk designation), which places this Permittee into the High Risk category. This category of tenants is subject to be inspected semiannually. No imminent threat to the environment was observed during the inspection. However, one potential violation was observed during the inspection. The Permittee is advised to take action on following item: •□Revocable Permit and General Housekeeping – General housekeeping throughout the permitted premises is in a poor condition. Salvaged parts, supplies, vehicle(s), vessel(s), and other materials are scattered throughout the permitted premises. The general housekeeping condition of the site is in potential violation of Provision No. 10 in the Permittee's Revocable Permit, which states: "WASTE, STRIP AND NUISANCE; MAINTENANCE. The PERMITTEE shall not make, permit or suffer any waste, strip, nuisance or any other unlawful, improper or offensive use of the Premises." □ The Permittee indicated that he was in the process of re-organizing the materials stored on the premises. The Permittee should remove all debris, unserviceable vehicle(s)/vessel(s)/materials from the permitted premises, and restore the entire permitted premises to an aesthetically pleasing appearance. In the meantime, the Permittee is advised to implement following Best Management Practice:	High	16	25-Nov-14	(808) 263-2383; (808) 230-0940		Captain Jeff Lansdown 665 IANA Street Kailua, HI 96734-3410	Keehi	Honolulu
Marisco, Ltd.		Regular	6/10/2014	Regular	11/21/2014	6/10/2014 Inspection Results: Marisco should continue to improve upon good housekeeping efforts and at this time, there are no further actions required by the tenant. 11/21/2014 Inspection Summary: Ensure all containers are covered and labeled. Several containers were observed at the Lil Perris Facility without covers and labels. All appeared to contain petroleum substances (Photos # 12 and #13 in the attached Photo Log). ii. Sweep exterior areas to remove sediment and/or debris from Main Facility yard. Lowlying areas that flood during rain events leave behind sediment that could result in the discharge of sediment and/or debris into the harbor during a rain event that compromises the berm. (Photos #17 & # 18 in the attached Photo Log.)	High	27	26-Nov-14	(808) 306-5935, (808) 682-1333	HI 0021786 (effective 5/6/11)	Mr. Stephen Hinton Marisco, Ltd. 91-607 Malakole Road Kapolei, HI 96707	91-607 Malakole Road	Kalaeloa
Maritime License Center, Inc.		Recon	5/12/2014							(808) 589-0123		Mr. Charles Howard Maritime License Center, Inc. 707 Alakea Street, Suite 314 Honolulu, HI 96813	Pier 24	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Matson Navigation Company, Inc.		Regular	6/18/2014	Regular	12/2/2014	6/18/2014 Inspection Results: Based on the results of inspection, this tenant's terminal at Sand Island was found in fair housekeeping condition with a total risk score of 22, which places this tenant into the High category. This category of tenants is subject to be inspected semiannually. No immediate threats to the environment were observed during the inspection. Few deficiencies were observed and listed below. Please review the list and make corrective actions accordingly. •□Vehicle/Equipment Washing – In response to EPA's comments on Harbors Storm Water Management programs, Harbors has been implementing a new washing policy since 2012: Vehicle/equipment washing is strictly prohibited without proper containment and without prior consent from Harbors. Please submit your vehicle/equipment washing request with support documents (i.e., Standard Operating Procedure for Washing, method of derived wastewater disposal, copies of Industrial Wastewater Discharge Permit [IWDP] if discharging to City Sewer System, and site map annotated with vehicle/equipment washing location) to HDOT Harbors Division at following address, for review and approval. For more information on washing, please visit Harbors Storm Water Management online at http://hidot.hawaii.gov/harbors/library/storm-water-management/. Attn: Mr. Randal Leong State of Hawaii Department of Transportation, Harbors Division Engineering Branch Environmental Section 79 South Nimitz Highway Honolulu, HI 96813-4898 •□SPCC Compliance – According to 40 CFR 112.5(b), this Plan needs to be reviewed and evaluated at least once every five years from the date your facility becomes subject to the SPCC rules. Harbors is aware that your facility is currently in the process of updating the Plan. Please provide a complete copy of the updated Plan to Harbors Division upon completion. Additionally, a licensed Professional Engineer must review and certify a Plan for it to satisfy the requirements of 40 CFR 112.3(d). •□General Housekeeping – Please note that it is tenant's responsibility to "keep the leased premises in a clean, sanitary and orderly condition and shall not make, permit, or suffer any waste, strip, nuisance or unlawful, improper or offensive use of the leased premises." (Provision 4.e) o□Crane Rail Maintenance - Oil stains were observed around the crane rails (Photo 29). The crane rails are covered	High	22	08-Jul-14	(808) 848-1252, (808) 228-1680; (808) 848-1241, (808) 845-5648; (808) 848-1280; (808) 848-8306; (808) 848-1258	HI R80A15	Ms. Keahi Birch Matson Terminals, Inc. 1411 Sand Island Parkway Honolulu, HI 96819-4322	Piers 51B, 52, 53	Honolulu
McCabe, Hamilton & Renny		Regular	10/7/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 11, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□SPCC Compliance – Per 40 CFR 112.5(b), the SPCC Plan needs to be reviewed and evaluated at least once every five years. If you have already done so, please update the plan to document the review and necessary changes. Additionally, please provide one copy of completed and signed plan to HDOT Harbors Division at following address: ATTN: Mr. Randal Leong State of Hawaii Department of Transportation, Harbors Division Engineering Branch Environmental Section 79 South Nimitz Highway Honolulu, HI 96813-4898 •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place on-site. •□General Housekeeping – Store oily parts (Photo 17) indoors or under the cover. Keep up the good housekeeping practice(s). Pier 29 Based on the results of the inspection, their facility was found in fair housekeeping condition with a total risk score of 3, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Spill Containment – Keep a spill kit on-site in case of spill/leak. •□General Housekeeping - Keep up the good housekeeping practice(s) KBPH: Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of	Low - Medium	11	13-Oct-14	(808) 479-0356, (808) 533-6791		Mr. Andrew Souza McCabe, Hamilton & Renny 607 North Nimitz Highway Honolulu, HI 96817 P.O. Box 210 Honolulu, HI 96810-0210	Transit shed at Kaeloa, Piers 23 and 29 at Honolulu Harbor	Honolulu;Kalaeloa
Moana Pa'a Kai, Inc.	Subsiduary of Young Brothers	Regular	12/23/2014			Foss should work toward implementing/maintaining the following Best Management Practices (BMP): 1. Photo 3: Several small containers of liquids in the flammable storage locker were not labeled and/or capped in the welding shop. 2. Photos 8 & 9: Drums with corrosion should be repaired/replaced/removed. Empty drums should be labeled as such. Drums with liquid should be stored within secondary containment. 3. Photo 13: Spent batteries should be stored within secondary containment to contain any releases that may occur. 4. Post the stormwater hotline number in a conspicuous place. Even though Foss noted that personnel would call dispatch, the hotline should be available in case there are questions to comply with the Harbors Stormwater Program Plan. 5. Foss should keep an accurate inventory of oil products stored on-site. At the time of the inspection, it appeared that the facility may have exceeded the Spill Prevention, Control, and Countermeasure (SPCC) threshold defined in 40 CFR 112 as 1,320 gallons of petroleum products stored in containers with capacities of 55-gallons and larger. Inspectors observed 20 55-gallon drums and one 400-gallon AST, which equates to 1,500-gallons. However, facility personnel indicated that several of the drums were empty and would be removed so that they would remain below the SPCC threshold.	Medium	12	12/29/2014	(808) 543-9398; (206) 276-1898	HIR80B059	Mr. Nathan Kapule Moana Pa'a Kai, Inc. P.O. Box 3288 Honolulu, HI 96801-3288	Piers 20, 21 and 22	Honolulu
Nanakuli Neighborhood Housing Services, Inc.	Nanakuli Housing Corporation Baseyard Hawaii	Regular	12/9/2014			Based on the results of the inspection, the Permittee's facility was found in an average housekeeping condition with a total risk score of 6, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. No imminent threat was observed during the inspection. The Permittee is advised to implement the following Best Management Practice(s): •□Forklift Maintenance – Continue to monitor forklift for any sign of leaking condition and maintain them on a regular basis. While not in use, place drip pans or other absorbent material underneath to catch any leak/spill. It is also recommended that a forklift maintenance log be kept on-site. •□General Housekeeping – Keep up the good housekeeping practice(s) and dispose of materials in derelict conditions on a timely basis (Photo 13)	Medium	6	19-Dec-14	(808) 842-0770		Mr. Wilbert Barber Nanakuli Housing Corporation P.O. Box 17489 Honolulu, HI 96817-0489	50 P Sand Island Access Rd	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Norko Marine Agency, Inc.		Recon	5/19/2014							(808) 216-4790, (808) 536-4568		Mr. Norman Cheu Norko Marine Agency, Inc. 791 North Nimitz Highway, Pier 32 Honolulu, HI 96817	Pier 33	Honolulu
Oceantronics, Inc.		Regular	10/15/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 4, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Preventive Maintenance – Conduct regular maintenance on forklift. Recommend placing drip pans or other absorbent materials underneath the forklift (Photo 3) to catch any spill/leak, while not in use. Also, recommend keeping a forklift maintenance log on-site. •□General Housekeeping – Continue the good housekeeping practice(s). Remove derelict items off-site on a regular basis (Photos 10 and 13).	Low	4	22-Oct-14	(808) 522-5600; (808) 832-5590		Mr. Glory Ebeling Oceantronics, Inc. 711 North Nimitz Highway Honolulu, HI 96817	Pier 24	Honolulu
Ohai, Leo A.	Oceanic Libra Corporation	Regular	9/12/2014	Regular	10/3/2014	Based on the results of the inspection, their facility was found in fair housekeeping condition with a total risk score of 18, which places this tenant into the High Risk category. This category of tenants is subject to be inspected semiannually. An imminent threat to the environment and public health was observed during the inspection. A number of violations and deficiencies were observed during the inspection. The items listed below require the Permittee's immediate attention and corrective actions: •□Illicit Discharge and Lease Violation – During the inspection, a leak from a four-inch sewer pipe under the Mauka trailer office was observed (Photo 23). The liquid left a trail to an adjacent storm drain (Photo 18), which empties into Honolulu Harbor. This is considered as an illicit discharge. THIS IS ALSO A POTENTIAL VIOLATION OF TENANT'S LEASE COVENANT NUMBER 26 and 27, which states: "26.□SANITATION: MAINTENANCE OF PREMISES.□The LESSEE, at all times during the term of this lease, shall: a)□Keep and maintain all portions of the Premises and improvements thereon in good repair and in a strictly clean, neat, orderly and sanitary condition, free of waste, rubbish and other refuse; b)□Keep and maintain all fixtures, equipment and personal property of the LESSEE upon the Premises in good condition and repair;" "27. □WASTE AND UNLAWFUL, IMPROPER OR OFFENSIVE USE OF THE PREMISES. □The LESSEE shall not commit, suffer or permit to be committed any waste, nuisance, strip or unlawful, improper or offensive use of the Premises, or any part thereof." This situation constitutes an imminent threat to the environment. It is also a health threat to the tenant's employees, visitors to this lease area, and the public. The Permittee must immediately contain the wastewater to mitigate the threat. In the meantime, the Permittee must resolve this situation/violation or provide Harbors Division an action plan (if more time is needed) within fourteen (14) calendar days upon receipt of this report. Any residual waste must be cleaned to the extent that the condition of the site will not constitute a threat to the environment and public health. Additionally, stop using all facilities that discharge through this pipeline until it is repaired. All repair works must be completed and certified by a licensed professional. •□Oil Stain Cleanup and Oily Part/Equipment Storage – Store any oily/leaking part/equipment under cover or with absorbent sheets underneath to catch any spill/leak (Photos 2 and 7). In the meantime, clean up any oil stains on the	High	18	26-Sep-14	(808) 531-2524 (Business), (808) 690-4030 (Cellular), (808) 528-2149 (Home)		Mr. Nephi Ohai C/O Oceanic Libra Corporation, P.O. Box 37038 Honolulu, HI 96837	Pier 18	
P&R Water Taxi, Ltd.		Regular	11/10/2014			i. Place absorbent materials and/or drip pans beneath forklifts while not in use. ii. The SPCCP dated December 2010 needs to be updated in 2015. iii. Repair vehicles leaking fuel, or place absorbent materials and/or drip pans beneath vehicles suspect of leaking. iv. Clean up oil stains on a timely basis, and, to the extent that it would not generate a sheen when it rains.	Medium	15	11/12/2014	808) 554-3436	HIR80A153	Mr. Ralph Dewitt P&R Water Taxi, Ltd. P.O. Box 2851 Honolulu, HI 96803-2851	Pier 36	Honolulu
Pacific Environmental Corporation	PENCO	Regular	10/30/2014			Pier 14: Based on the results of the inspection, the Permittee's facility was found in good housekeeping condition with a total risk score of 5, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: • General Housekeeping – Continue the good housekeeping practices and clean up oil spill/leak on a timely basis (Photo 14). Pier 33: Based on the results of the inspection, the Permittee's facility was found in good housekeeping condition with a total risk score of 10, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: • General Housekeeping – Continue the good housekeeping practices.	Low - Medium	10	11/17/2014	(808) 545-5195		Ms. Shanyn Nauihou PENCO 65 North Nimitz Highway, Pier 14 Honolulu, HI 96817-5333	Piers 14 and 35; KIPA	Honolulu
Pacific Fishing and Supply, Inc.	Petro Pacific	Final	11/25/2014			Pacific Fishing and Supply is advised to follow up with the actions listed below: i. Photo Log #4 & 5: Properly remove unmarked 55-gal drum located in the loading/unloading corridor. ii. Photo Log #6: Properly remove 1-gal can of refrigerator lubricant located in the loading/unloading corridor.				(808) 533-1195; 590-9921		Mr. Roger Dang Pacific Fishing and Supply, Inc. 504 North Nimitz Highway Honolulu, HI 96817	Pier 34 (867 N Nimitz Hwy)	Honolulu
Pacific Ocean Producers, LLC	Pacific Ocean Producers, Inc. (Nico's); POP Fishing & Marine, LLC	Recon	5/12/2014							(808) 537-2905 ext. 110, (808) 478-9002, 1(800) 288-6644; (808) 537-2905 ext. 102		Mr. Neil Kanemoto Pacific Ocean Producers, LLC 1133 North Nimitz Highway Honolulu, HI 96817	Pier 38	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Pacific Shipyards International, LLC	Pacific Marine and Supply, Navatek, Unitek Contracting Group, Honolulu Shipyard	Regular	6/12/2014	Regular	11/7/2014	6/12/2014 inspection results: PSI noted that filter fabrics are changed on a regular schedule and the filter in question would be changed. PSI shall inform Unitek to properly mark all 55-gallon drums. 11/7/2014 Inspection Results: Areas for Improvement PSI should work toward implementing/maintaining the following Best Management Practices (BMP): 1. All paint cans/containers should be stored off the ground. Photo Log Picture 3 shows paint containers stored on the ground. 2. It was noted during the inspection that PSI personnel replace drain inlet protection devices – most notably filter fabric and Ultra Drain Guards – when necessary. Drain inlet protection devices that require replacement should be replaced in a timely manner. Photo Log Picture 14 shows an Ultra Drain Guard that requires maintenance and/or replacement. 3. As a good housekeeping practice, sediment should be cleaned from around drain inlets to prevent sediment from clogging inlet protection devices. Photo Log Picture 14 shows sediment accumulation around the drain and water ponding in the grated drain inlet. 4. All containment vessels should be labeled whether they are being currently used or not. Photo Log Picture 15 shows unlabeled containers observed during the inspection. As a note, general housekeeping around the property should be conducted as a proactive measure to prevent potential illicit discharges. General housekeeping around the tenant property was established as fair condition. FOLLOW-UP ACTIONS Since the date of the inspection, PSI has sent photo documentation (Corrected Action Photo Log) showing corrected actions as follows: 1. 11/10/2014: Photo 19 shows paint cans organized and stored on pallets in a covered warehouse (Improvement on Item No. 1); 2. 11/10/2014: Photo 17, 18, and 20 all display properly labeled tanks that are empty and/or labeled with their contents and accumulation start date (Improvement on Item No. 4); In response to the corrected actions, PSI does not have any further storm water issues to address from this inspection. Areas for Improvement Items 2 and 3 are considered ongoing practices as good housekeeping BMP's.	High	27	12-Nov-14	(808) 848-6211 ext 229, (808) 342-3384	HI0020753	Mr. Marv Miller Pacific Shipyards International, LLC P.O. Box 31328, Honolulu, HI 96820	Pier 41	Honolulu
Pang, Sandra	SP Lunch Wagon; Sandy's Lunchwagon	Recon	5/21/2014							(808) 778-4686		Ms. Sandra Pang 139 Mokauea Street Honolulu, HI 96819	Pier 51	Honolulu
Paradise Cruise, Ltd.	Paradise Cruise, Inc., RDH Transportation Inc., and Royal Star	New	11/18/2014			Based on the results of the inspection, the Permittee's facility was found in average housekeeping condition with a total risk score of 3, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practices: •□Building Maintenance – Building power washing, without prior containment and prior written consent from HDOT Harbors Division, is prohibited. It is not acceptable to let wastewater from washing sit in areas such as parking lots, driveways, or walkway to evaporate, because contaminants can accumulate and flow into storm drains or state waters during the next rainfall event. •□Harbors Training – Attend Harbors Annual Stormwater Awareness Training, which is mandatory for all Harbors tenants.	Low	3	21-Nov-14	(808) 479-7427	HI R80E255	5 Sand Island Access Road, Box 121 Honolulu, HI 96819	KMR North of 930	Honolulu
Pendleton Flour Mills, LLC	Hawaiian Flour Mills; HFM Food Service; KERR Pacific Corp	Regular	10/21/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 8, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Labeling – Please properly label and/or mark all containers (e.g., mark the drum used to store used oil as "USED OIL"). •□General Housekeeping – Continue good housekeeping practices. Remove derelict items off-site on a regular basis. •□Environmental Hotline – Please post the enclosed "Storm Water Contacts" sign created for Harbors tenants at a conspicuous location at the facility (e.g., employee's bulletin board)	Medium	8	22-Oct-14	(808) 527-3272, (808) 527-3215; 368-1868		Mr. Tim Bryan Pendleton Flour Mills, LLC P.O. Box 1238 Honolulu, HI 96807-1238	Pier 23	Honolulu
Petrospect, Inc.		Recon	5/19/2014							(808) 536-6626; (808) 306-7501		Mr. Chad Miller Petrospect, Inc. 499 North Nimitz Highway, Pier 21 Honolulu, HI 96817-5063	Pier 21 Mezzanine	Honolulu
Pioneer Machinery, Inc.		Recon	5/19/2014							(808) 371-4892		Mr. Rodney Yee Pioneer Machinery, Inc. P.O. Box 22265 Honolulu, HI 96823-2265	Keehi	Honolulu
Pryne, Ty	H.B.N. Yacht Rigging	Regular	10/23/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 4, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Forklift Maintenance – Continue to maintain the forklift regularly. Recommend creating and keeping a forklift maintenance log on-site. The forklift operator shall be properly trained according to OSHA regulations in 29 CFR 1910.178(l). •□Cargo Container Building – As previously discussed in the letter sent to you on May 21, 2012, please provide detailed drawings and specifications of the wooden stairs (Photo 7), constructed to access the second floor, and submit to HDOT Harbors Division for review and approval. Please be advised that a building permit may be required for the two story cargo container building. Check with the City and County of Honolulu Department of Planning and Permitting for guidance on this issue. •□General Housekeeping – Continue good housekeeping practices. Remove derelict items off-site on a regular basis (Photos 9, 10, and 12).	Low	4	27-Oct-14	(808) 479-8844, (808) 597-8120		Mr. Ty Pryne 3901 A Maunahilu Place Honolulu, HI 96816 Shipping Address: 742 Queen Street, Suite 301 Honolulu, HI 96813	Pier 21	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
R & C Concrete Specialists, Inc.	Ron's Concrete Specialists, Inc.	Regular	10/22/2014			Based on the results of the inspection, their facility was found in good housekeeping condition with a total risk score of 4, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Outdoor Equipment Storage – Cover the forklift temporarily stored on-site (Photo 13) and place absorbent sheet underneath to catch any spill/leak. •□General Housekeeping – Continue good housekeeping practices. Remove derelict items off-site on a regular basis.	Low	4	27-Oct-14	(808) 845-0467		Mr. James Mainaaupo R & C Concrete Specialists, Inc. P.O. Box 17370 Honolulu, HI 96817	Keehi	Honolulu
Raymond Yan Siu	Pier 21 Lunchroom; formerly known as Wai Lun Siu	Recon	5/19/2014							(808) 599-7715, (808) 256-2907		Mr. Raymond Siu Pier 21 Lunchroom 750 North Nimitz Highway Honolulu, HI 96819	Pier 21	Honolulu
Rebecca's Fine Collections, Inc.	R.F.C. Group	Regular	7/28/2014	Final	9/2/2014	Areas for Improvement: R.F.C. Group should work toward implementing/maintaining the following Best Management Practices (BMP): 1. Properly clean up any spill or stain as soon as possible and to the extent that it will not produce a sheen when it rains. a. Three stains were noted on the makai side of the property that require cleaning (Photo 3-5). b. Place oil drip pans under all leaking vehicles and equipment as needed until repairs can be made. 2. Label all tanks with appropriate signage for their contents. For instance, an "EMPTY" sign should be placed on all empty tanks (Photo 6-7). 3. Improve general housekeeping practices by ensuring that materials are stored under cover and/or on pallets to prevent impacts with storm water runoff (Photo 10). 4. Attend the next mandatory Harbors Annual Storm Water Awareness Training for tenants, which will be scheduled in the next two months.	Medium	10	28-Jul-14	(808) 478-6688		Ms. Rebecca Fan Rebecca's Fine Collections, Inc. 66 Queen Street, #1702 Honolulu, HI 96813	Keehi	Honolulu
Sause Bros., Inc.		Regular	10/29/2014			Based on the results of the inspection, the Permittee's facility was found in good housekeeping condition with a total risk score of 5, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following recommended Best Management Practices: •□Forklift/Equipment Maintenance – Continue to maintain forklift/equipment on a regular basis. Place drip pans or other absorbent materials underneath the forklift/equipment while not in use (Photo 23). •□Heavy Equipment Parked Outdoors - Place drip pans or other absorbent materials underneath any heavy equipment parked outside (Photo 16). •□General Housekeeping – Continue housekeeping practices.	Low	5	30-Oct-14	(808)306-2177; (808) 521-5082; KAL: (808) 523-5636		Mr. Wayne Stachel or Mr. Mike Leslie Sause Bros., Inc. 705 North Nimitz Highway, 2nd Floor Honolulu, HI 96817	Piers 24 and 27 at Honolulu Harbor; Pier 5 at KBPH	Honolulu; Kalaeloa
Sea Engineering, Inc.		Regular	11/25/2014			No deficiencies were noted during the inspection.	Medium	8	26-Nov-14	(808) 536-3603; (603) 978-6800		Mr. Tor Harris Sea Engineering, Inc. 863 North Nimitz Highway Honolulu, HI 96817	Near Pier 32	Honolulu
State of Hawaii Department of the Attorney General/Criminal Justice	Attorney General-Asset Forfeiture	Recon	5/12/2014							(808) 586-1383		Mr. Kern Nishioka State of Hawaii Dept of Attorney General/Criminal Justice 425 Queen Street, Honolulu HI 96813	Pier 22 Warehouse 8 & 6	Honolulu
Steinke Brothers, Inc.		Recon	5/21/2014							(808) 488-9668		Mr. Robert Steinke Steinke Brothers, Inc. 98-889 Kaahele Street Aiea, HI 96701	La Mariana Properties; Pier 60	Honolulu
Submarines Hawaii, L.P.	(Subsidary of Robert's Hawaii)	Recon	5/22/2014							(808) 753-7727; (808) 832-1643, (808) 457-5398		Captain Fred Racale Submarines Hawaii, L.P. 680 Iwilei Road, Suite 700 Honolulu, HI 96817-5317	Pier 41	Honolulu
The Gas Company, LLC	Hawaii Gas Company (formerly known as)	Regular	12/17/2014			Based on the results of the inspection, the Permittee's facility was found in a good housekeeping condition with a total risk score of 8, which places this Permittee into the Medium Risk category. This category of tenants is subject to be inspected annually. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practice(s): •□Compliance with SPCC Rule – Stay compliant with SPCC rules and provide one copy of Tier II Inventory Report, submitted to HDOH this year, to Harbors Environmental Section for filing purpose. •□General Housekeeping – Keep up the good housekeeping practice(s)	Medium	8	22-Dec-14	(808) 594-5637; (808) 594-5689 (Direct), (808) 551-3237 (Main)		Ms. Zoe Williams The Gas Company, LLC P.O. Box 3000 Honolulu, HI 96802-3000	Pier 38	Honolulu
The Pasha Group	Pasha Hawaii	Recon	5/22/2014							(808) 590-3617		Mr. Darren Lee Pasha Hawaii 745 Fort Street Mall, Suite 1600 Honolulu Hawaii 96813	Piers 31-34	Honolulu
The Webe Corporation, Ltd.	Ali'I Kai Catamaran (Subsidiary of Robert's Hawaii)	Recon	5/22/2014							(808) 831-1564, (808) 753-7727		Captain Fred Rackle The Webe Corporation, Ltd. 680 Iwilei Road, Suite 700 Honolulu, HI 96817	Pier 5	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Trouble Free Corp.		Regular	8/14/2014	Regular	12/30/2014	Based on the results of these inspections, this tenant's facility was found in average housekeeping condition with a total risk score of 5, which places this tenant into the Low category. This category of tenants is subject to be inspected every five years. No immediate threats to the environment were observed during the inspection. Mr. Chris Boyles provided the inventory of potential hazardous substances (currently stored on-site) on August 25, 2014. One deficiency was noticed during the inspection. Please review this report and follow-up with items listed below: •□Harbors Tenant Training – Please continue to attend Harbors Annually Stormwater Awareness Training, which is mandatory for Harbors Tenants. Each tenant's site will be re-evaluated annually. Trouble Free Corporation should implement the following recommended Best Management Practices: •□Forklift Maintenance – Continue to monitor equipment/vehicles for any sign of leaking condition and maintain them on a regular basis and place drip plans or other absorbent material underneath to catch any leak/spill, while not in use. It is also recommended that a forklift maintenance log be kept on-site. •□Hazardous Material Storage – Ensure that all chemicals stored on-site are compatible with the others nearby. •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place (e.g., employee's bulletin board). •□General Housekeeping – Continue to improve general housekeeping.	Low	5	9/17/2014, 12/31/2014	(808) 864-8864		Mr. Chris Boyles Trouble Free Corp. 123 Glass Place Marion SC 29571		Kalaeloa
U.S. Bureau of Customs and Border Protection, DHS		Recon	5/22/2014							(808) 522-8001 ext. 223; (808) 366-3795		Mr. Ferdie Jose US Bureau of Customs and Border Protection, DHS 300 Ala Moana Boulevard, Room 2-267 Honolulu, HI 96813	Pier 1	Honolulu
Unify Recovery LLC		New	6/16/2014			6/16/2014 Inspection Results: Based on the results of inspection, this tenant's facility was found in fair housekeeping condition with a total risk score of 9, which places this tenant into the Medium category. This category of tenants is subject to be inspected annually. No immediate threats to the environment were observed during the inspection. No immediate threats to the environment were observed during the inspection. Please work toward implementing following recommended Best Management Practices: •□Spill/Leak Prevention – Please monitor equipment/vehicles for any sign of leaking condition and maintain them on a regular basis (Photos 1 and 3) and place drip plans or other absorbent material underneath to catch any leak/spill, while not in use. It is recommended that a spill kit be kept on-site and replenished as necessary. •□General Housekeeping – Tenant moved in recently and was still in the process of organizing on-site material storage at the time of inspection. Please continue to improve storage of on-site recyclables and keep the perimeter of your premises neat and clean (Photos 7 and 8). •□Harbors Tenant Training – Please attend Harbors Tenant Annual Stormwater Pollution Prevention Awareness Training, which is mandatory for all HDOT Harbors tenants. The invitation letter will be sent out to you at a later time. •□Harbors Environmental Hotline – Please post the enclosed "Storm Water Contacts" sign on-site at a conspicuous location and keep us informed of any abnormal environmental related concerns/issues.	Medium	9	19-Jun-14					
United Fishing Agency, Ltd.		Recon	5/22/2014							(808) 536-2148		Mr. Daniel Otani United Fishing Agency, Ltd. 1131 North Nimitz Highway Honolulu, HI 96817	Pier 38	Honolulu
VAK Fisheries, LLC		New	8/20/2014			VAK Fisheries LLC became a Harbors tenant since May 2014. Based on the results of this tenant inspection, their facility was found in good housekeeping condition with a total risk score of 3, which places this tenant into the Low Risk category. This category of tenants is subject to be inspected every five years. No immediate threats to the environment were observed during the inspection. VAK Fisheries LLC should implement following recommended Best Management Practices: •□Forklift Maintenance – Continue to monitor equipment/vehicles for any sign of leaking condition and maintain them on a regular basis and place drip plans or other absorbent material underneath to catch any leak/spill, while not in use. It is also recommended that a forklift maintenance log be kept on-site. •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place (e.g., employee's bulletin board). •□General Housekeeping – Keep up the good housekeeping practices.	Low	3		(808) 258-2990			Pier 19 Warehouse	Honolulu
Van, Kevin	Hi-Sea Hawaii Fishing Supply	Regular	11/14/2014			Based on the results of the inspection, the Permittee's facility was found in average housekeeping condition with a total risk score of 3, which places this Permittee into the Low Risk category. This category of tenants is subject to be inspected every five years. No imminent threat to the environment was observed during the inspection. The Permittee is advised to implement following Best Management Practices: •□Equipment Maintenance and Spill/Leak Prevention – Continue to maintain/monitor all vehicle(s) and forklift(s) parked on-site. Recommend keeping a equipment maintenance log on-site. Place drip pans or other absorbent materials underneath the forklift(s), while not in use. •□Harbors Environmental Hotline – Post the enclosed "Storm Water Contacts" sign at a conspicuous place on-site or in the office. •□Harbors Training – Continue to attend Harbors Annual Stormwater Awareness Training, which is mandatory for all Harbors tenants.	Low	3	21-Nov-14	(808) 521-6076, (808) 234-9091		Mr. Kevin Van Hi-Sea Hawaii Fishing Supply Pier 20, Warehouse #6 Honolulu, HI 96817	Pier 20 Warehouse 6	Honolulu
Welch, Jr., Darrell, G., AIA	Aloha Tower, 4th Floor	Recon	5/22/2014							(808) 585-8522		Mr. Darrell G. Welch Jr. P.O. Box 4557 Honolulu, HI 96812-4557	4th floor of Aloha Tower	Honolulu
Wikoliana Educational Excursions, LLC		Recon	5/8/2014							(808) 230-0940		Captain Ian Jeffrey Lansdown Wikoliana Educational Excursions, LLC 665 Iana Street Kailua, HI 96734	Pier 7	Honolulu

Tenant	DBA	Type	InspDate2014	Type	InspDate2014	ReqdBMP2014AndFollowUp	RiskRank2014	Score2014	MailDate2014	Phone	NPDES	POC and MailAddress	Location	Harbor
Young Brothers, Ltd.		Regular	12/19/2014			YB should work toward implementing/maintaining the following Best Management Practices (BMP): 1. Photo 5 & 6: Two 55-gal drums being stored within the oil water separator secondary containment area. These drums should be stored in a material storage area according to tenant SPCC plan. In particular, the metal 55-gal drum was observed to be rusty and may be a potential spill concern; 2. Photo 7: Approximately seventeen unlabeled 55-gal drums were observed stacked and stored in the vehicle washing area. The drums were noted by tenant to be empty, however all containers should be properly labeled (i.e. "EMPTY"). On 12/29/2014, YB provided documentation of corrected actions pertinent to the highlighted areas for improvement previously discussed in section 1.3.2. Photos of corrected actions can be seen in the Corrective Action Photo Log. No further actions are necessary.	Medium	16	12/31/2014	(808) 543-9398, (808) 590-4297; (206) 276-1898; (808) 543-9357	HIR80A119	Mr. Nathan Kapule Young Brothers, Ltd. P.O. Box 3288 Honolulu, HI 96801-3288	Piers 39, 40	Honolulu

Attachment 18. Tenant Illicit Discharge Investigations

Tenant Business Name	Date of Incident	Method of Discovery	Description	Action Taken
Horizon Lines, LLC	2/7/2014	Other Observation	The spill was a result of community trucker (Honolulu Recovery Systems) encountering a hydraulic fluid leak caused by a disconnection from his vehicles hydraulic line to the sump	The tenant immediately confined the area and conducted the cleanup.
American Marine Corporation	5/30/2014	Reconnaissance Inspection	During a reconnaissance inspection on May 30, 2014, approximately 0900, a male employee of AMC, was observed to be power0washing (steam-cleaning) a trailer in the drive way directly adjacent to the warehouse at Pier 60 warehouse facility. He states that he was not aware that vehicle and/or equipment washing on Harbors Division property, without any containment and prior consent from the Harbors Division, are prohibited. A warning sign is stenciled on the wall in this rea that reads "No Washing Equipment."	HAR-EE issued letter, dated June 6, 2014. AMC responsed on June 25, 2014.
Ohai, Leo A.	9/12/2014	Routine Inspection	During a regular inspection on September 12, 2014, a leak from a four-inch sewer pipe under the Mauka trailer office was observed. The liquid left a trail to an adjacent storm drain, which empties into Honolulu Harbor. This is considered as an illicit discharge.	HAR-EE and HAR-PM informed the tenant of the issue on-site and asked them to immediately contain the wastewater to mitigate the threat. In the meantime, the tenant must resolve this situation/violation or provide Harbors Division an action plan (if more time is needed) within fourteen (14) calendar days upon receipt of this report. Any residual waste must be cleaned to the extent that the condition of the site will not constitute a threat to the environment and public health. Additionally, stop using all facilities that discharge through this pipeline until it is repaired. All repair works must be completed and certified by a licensed professional. A follow-up inspection was conducted on October 3, 2014 to confirm that the discharge had been discontinued and the pipes had been fixed. Ohai provided a formal response letter dated December 12, 2014.

Tenant Business Name	Date of Incident	Method of Discovery	Description	Action Taken
Horizon Lines, LLC	9/23/2014	Other Observation	The terminal footprint was wet this morning (9/23/2014; around 0730) due to earlier rain and the operator did not realize there was a leak. When the spreader was not able to hoise, the operator contacted the Operations Manager and was instructed to drive the machine to the maintenance area for diagnoses. Unfortunately, this tracked the hydraulic oil over a greater area of the terminal. Operations around the spill was suspended once hydraulic oil was discovered around the terminal. It was estimated that a total of 80 gallons of hydraulic fluids were released on the asphalt pavement. Cause of the leak was determined as the threaded shaft for that oil filter failed. Initial indication was that the hydraulic oil filter canister became dislodged and resulted in the hydraulic leaking out. Mechanics estimate somewhere between 80-100 gallons could have been discharged, but not officially confirmed.	The incident was first noticed in the morning at 0721 and clean-up and containment efforts were initiated by the maintenance crew. Safety Manager was notified around 0830. Penco was contacted to deploy resources to facilitate further clean-up. HDOH and NRC were notified around 0925 and 1230. Horizon did not notice any runoff entry into any of the storm drains in proximity. The residual material of absorbent was packed into four 55-gallon drums and was held at the maintenance shop for proper disposal by PENCO. First phase of clean-up completed at 1500. Second phase of clean-up commenced at 1700 by J/R Environmental. They perfomed steam cleaning surface BMP to remove any residual staining. All contaminated water was recovered utilizing their potable tank truck and properly disposed offsite. USCG performed initial site visit and subsequently issued notice of federal interest for oil pollution incident. Follow-up visit by USCG was conducted the next morning. No further action was required.
Matson Navigation Company, Inc.	10/24/2014	Other Observation	Oil sheen, possibly hydraulic and/or motor oil from Matson's TopHandler (Forklift), which was involved in an accident (engulted in flames). Firefighting related wastewater (exempted under Harbors small MS4 permit) discharged into nearby storm drain.	HFD responded to the scene. Absorbent sheens were deployed into drain. A formal incident report had been requested through regular inspection. Harbors still awaits response from Matson.

5

Attachment 19. SHOT Form IDDE Investigations

Date	Time	Caller Name	Caller Company	D - Location	D - Date/Time	D - Substance	D - Amount	D - Media	D - Other	D - More Than One Media	D - Responsible Party	D - Cause	D - Clean-up Actions	D - Further Notifications	D - Follow Up
1 /6 /2014	0745	Ronald Agpalsa	HAR-OE	Pier 10-11	1/6/2014; 0745	Oil Sheen	Unknown		Confined to Harbor Water		Unknown	Unknown. Observed a rainbow oil sheen (unknown substance/possibly diesel) about 1000 feet in length. The location of the sheen is the length of Piers 10 and 11. Charles BARCLAY initially found the sheen and reported the sheen to Aloha Tower Dispatch at about 0743.	None taken at this time. Waiting for HAR-EE to follow up.	HAR-EE (0810)	None. Unknown source.
1 /19/2014	1508	John Todt	HAR-OE	Piers 17 to 38	1/19/2014; 1508	Oil Sheen	Unknown	Ocean			Unknown	Unknown	N/A	Tower dispatch notified the respective persons. USCG also informed.	Unknown source. Entered into database
2 /4 /2014	1530	Tower Operator	HAR-OCT	Pier 42	2/4/2014; am	Faint petroleum-based sheen, gray-brown "slimy" film,	Approx. 30' X 100'	Ocean	Confined to Harbor water		Unknown	Unknown	None at the time.	NRC contacted USCG, who contacted Tower Operator. Tower Operator contacted Harbor Police, HDOH, and HAR-EE.	HAR-EE visited the scene. Source unknown, no further investigation required. (Jim to provide updated form to be re-linked on next column)
2 /7 /2014	1115	Frank Roznerski	Horizon	Pier 51A	2/7/2014; am	Hydraulic oil	Approx 20 to 25 gallons	Asphalt			Honolulu Recovery Systems	Hydraulic fluid leak caused by a disconnection from his vehicles hydraulic line to the sump.	Nearby storm drain inlet bermed. Clean up started immediately upon discovery. The oil on asphalt pavement was clean up. Later on, JR Environmental came in and power-washed the area. All wastes were properly disposed of.	Horizon notified NRC, HEER, and HAR-EE. NRC contacted USCG.	No hydraulic oil entered into Harbors small MS4.
2 /18/2014	0800	Tower Operator	HAR-OCT	USCG Base, Sand Island	2/16/2014; 0800	Possibly oil	Approx 10' x 375'	Ocean			Unknown (sheen directly adjacent to USCG Rush mooring)	Unknown	USCG personnel surrounded sheen with floating oil boom	Tower control contacted by USCG personnel. Tower contacted HDOH, Harbor Police, and HAR-EE	None at this time
3 /28/2014	0249	Kerstin Kono	HAR-OE	Pier 16, F/V Crystal	3/28/2014; N/A	Grinding chips	Unknown	Ocean	Confined to Harbor water		F/V Crystal	Possible grinding of vessel	No clean up conducted the time. Ceased all operations on vessel. Crew was told to put something to catch chips so that it won't fall into the water.	Tower dispatch notified Unit 9 and Jim Galariada	No action required. Not MS4 related.
7 /15/2014	0825	Carl Young	HAR-PM	KMR, Bldg 911	7/15/2014; 0815	Possible water from fire hydrant	Unknown	Concrete		Asphalt pavement	Close Construction	Testing fire hydrant to get ready for demolishing bldg 905 on July 16, 2014.	BMP in place to protect storm drain. No clean up.	HAR-EE contacted HAR-ESP for further investigation. Ongoing construction project on-site (bldg demo)	None at this time. Determined to be Non-ID.
6 /24/2014	0910	Michael Howells	HAR-EP	Piers 15 and 16	6/24/2014; 0910	Uncontained welding	Unknown	Ocean			Unknown for oily sheen at Pier 15; First fishing boat on left as one enters Pier 16 for dirty foam.	Uncontained welding over ocean at Pier 16 (first fishing boat on the left). Dirty foam on water surrounding same vessel. Oily sheen on water near Ewa side of Pier 15.	No clean up	Caller contacted Harbor Traffic Control and HAR-EE.	HAR-EE employee spoke with the person performing welding operations. The welder was not aware of Harbor policies addressing vessel maintenance.
8 /2 /2014	0557	Ronald Agpalsa	HAR-OE	Keehi Small Boat Harbor	8/2/2014; 1118	Sheen	100 yards by 30 yards	Ocean			Unknown	Unknown	Sheen dissipated.	HTC and USCG	None required. No MS4 impacts.
8 /11/2014	0582	Jaena Avery	HAR-OE	USCG Sand Island Station	8/11/2014; 1430	Sewage waste	50 gallons	Ocean			USCG	There was a break in the sewage line below the pier adjacent to the vessel "Kittyhawk".	The sewage line was immediately shut off. Damaed pipe was repaired by USCG personnel	HTC was notified at about 1725. GPIV M. Hanohano was notified at about 1730 hours. HTC notified HAR-EE and HDOH.	None required. No MS4 impacts.
8 /6 /2014	0566	Jaena Avery	HAR-OE	Water fronting Pier 16 to 18	8/6/2014; 1745	Rainbow oil sheen	Length of Piers 16 through 18	Ocean			Unknown	Unknown	None.	Contacted HTC, USCG, DOH, NRC, Ann Stevens (Harbors), and HAR-EE	None required. No MS4 impacts.
12/29/2014		John S. Dejesus	HAR-OE	Pier 38	12/29/2014; 0950	Soapy water	Unknown	Ocean			Unknown	Large amounts of soapy substances, discharged from vessel, were observed floating in harbor waters. Further investigations revealed that the soapy substance could have been discharged in the vicinity of fishing vessel's Vui Vui and Lady Alice. Upon questioning crew members of both vessels, they denied any involvement regarding this matter.	N/A	HTC, HDOT HAR-EE, and US Coast Guard	None

12

Attachment 20. Outfall Prioritization Summary

Inspected	Category	HDOT Location	Outfall ID	Previous Outfall ID	Pier	Inspection Date	Unlikely	Potential	Suspect	Obvious	Next Inspection Due By
TRUE	Outfall	Honolulu Harbor	To Be Verified (SDD 8000)	P51B-07	51B	4/15/2014	FALSE	TRUE	FALSE	FALSE	4/15/2015
TRUE	Outfall	Honolulu Harbor	SDD 1160	P05-HECO3 and P05-HECO4	6	4/16/2014	FALSE	TRUE	FALSE	FALSE	4/16/2015
TRUE	Outfall	Honolulu Harbor	SDD 1570	P09-04	9	4/16/2014	FALSE	TRUE	FALSE	FALSE	4/16/2015
TRUE	Outfall	Honolulu Harbor	SDD 4700	P36-01	35	4/17/2014	FALSE	TRUE	FALSE	FALSE	4/17/2015
TRUE	Outfall	Honolulu Harbor	SDD 5050	P38-01	38	4/17/2014	FALSE	TRUE	FALSE	FALSE	4/17/2015
TRUE	Outfall	Honolulu Harbor	SDD 0956	P05-01	5	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 7800	P51A-01	51A	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 7850	P51A-07	51A	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 7880	P51A-05	51A	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 7960	P51A-04	51A	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8080	P51B-05	51B	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8090	P51B-03	51B	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8130	P51C-01	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8182	P51B-04	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8190	P51C-05	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8194	P51C-06	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8198	P51C-04	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8200	No Previous ID	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8206	P51C-02	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8210	P51C-03	51C	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8442	P52-05	52	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8500	P52-01	52	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8556	P52-04	52	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8560	P52-03	52	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8850	P52-02	52	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8870	P53-03	53	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8900	P53-02 (right)	53	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8910	P53-02 (left)	53	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 8930	P53-01	53	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	To Be Verified (SDD 8070)	No Previous ID	51B	4/15/2014	TRUE	FALSE	FALSE	FALSE	4/15/2016
TRUE	Outfall	Honolulu Harbor	SDD 1000	P05-02	5	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1040	P05-03	6	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1150	P05-HECO2	6	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1190	P05-HECO5	7	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1500	No Previous ID	Unknown	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1508	P08-01	8	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1512	P08-03	8	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1520	P08-06	8	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1530	P08-10	8	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016

Inspected	Category	HDOT Location	Outfall ID	Previous Outfall ID	Pier	Inspection Date	Unlikely	Potential	Suspect	Obvious	Next Inspection Due By
TRUE	Outfall	Honolulu Harbor	SDD 1540	P08-12	8	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1552	P09-02	9	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1558	P09-03	9	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 1600	P09-05	9	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2200	P15-01	15	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2300	P19-01	19	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2590	P21-07	21	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2600	P21-01	21	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2610	P21-02	21	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2640	P21-03	21	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2794	P21-04	21	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 2800	P22-01	22	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3000	P23-01	23	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3070	P23-02	23	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3200	P23-03	23	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3240	P24-01	24	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3300	No Previous ID	24	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3500	No Previous ID	24	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3550	P25-01	25	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3610	P26-01	26	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 3630	P27-01	27	4/16/2014	TRUE	FALSE	FALSE	FALSE	4/16/2016
TRUE	Outfall	Honolulu Harbor	SDD 4500	P35-04	35	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 4600	P35-05	35	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE		Honolulu Harbor	SDD 4900	P37-01	37	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 5100	P38-02	38	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 5150	P38-04	38	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 5800	No Previous ID	41	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 6500	P41-03	41	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 6970	P41-01	41	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 6990	No Previous ID	41	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Honolulu Harbor	SDD 7600	P44/45-01	45	4/17/2014	TRUE	FALSE	FALSE	FALSE	4/17/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-01	BP-01		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-02	BP-02		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-03	BP-03		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-04	BP-04		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-05	BP-05		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-06	BP-06		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-07	BP-07		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-08	BP-08		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016

Inspected	Category	HDOT Location	Outfall ID	Previous Outfall ID	Pier	Inspection Date	Unlikely	Potential	Suspect	Obvious	Next Inspection Due By
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-09	BP-09		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-12	BP-12		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-14	BP-14		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-28	BP-28		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-29	BP-29		5/28/2014	TRUE	FALSE	FALSE	FALSE	5/28/2016
TRUE	Outfall	Honolulu Harbor	SDD 0100	P01-01	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 0130 (DI 0508)	P02-06	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 0170 (DI 0172)	P02-05	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Outfall	Honolulu Harbor	SDD 0600	P02-11	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 0630 (DI 0640)	P02-13	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Outfall	Honolulu Harbor	SDD 0700	P03-02	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 0720 (SDMH 0722)	24" Outfall	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 0800 (DI 0804)	18" Outfall	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1710 (SDMH 1712)	P10-01	10	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1720 (SDMH 1722)	P10-02	10	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1730 (SDMH 1732)	P10-03	10	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1760 (SDMH 1782)	P11-06	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1850 (FD 1824)	P11-10	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 1860 (FD 1836)	P11-11	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 2400 (DI 2724)	P19-08	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 2480 (DI 2484)	P19-06	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 3900 (SDI 3902)	P31-01	31	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 3920 (New Inlet)	P31-02	31	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 3950 (DI 3962)	P31-03	31	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4000 (DI 4062)	P32-01	32	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4010 (SDI 4072)	P32-02	32	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4200 (DI 4232 & 4204)	P33-01	33	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4300 (DI 4302)	P34-01	33	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4310 (DI 4312)	P34-02	33	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4320 (DI 4322)	P34-03	33	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	SDD 4350 (DI 4352)	P34-04	34	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 0112)	No Previous ID	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 0122)	No Previous ID	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 0152)	No Previous ID	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 0162)	No Previous ID	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 0202)	No Previous ID	1	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 2502)	P19-04	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (DI 2830)	P19-03	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1744)	P11-03	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016

Inspected	Category	HDOT Location	Outfall ID	Previous Outfall ID	Pier	Inspection Date	Unlikely	Potential	Suspect	Obvious	Next Inspection Due By
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1764)	P11-04	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1766)	P11-05	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1794)	P11-09	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1796)	P11-08	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1798)	P11-07	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1834)	P11-12	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (FD 1854)	P11-13	11	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (SDFHO 192542)	P19-02	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE		Honolulu Harbor	To Be Verified (SDFHO 192552)	P19-07	19	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Drain Inlet	Honolulu Harbor	To Be Verified (SDFHO02)	No Previous ID	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Outfall	Honolulu Harbor	SDD 0500	No Previous ID	2	6/6/2014	TRUE	FALSE	FALSE	FALSE	6/6/2016
TRUE	Outfall	Honolulu Harbor	SDD 2790	P21-06	21	7/9/2014	TRUE	FALSE	FALSE	FALSE	7/9/2016
TRUE	Outfall	Honolulu Harbor	SDD 5000	P37-02	37	10/14/2014	TRUE	FALSE	FALSE	FALSE	10/14/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-10	BP-10		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-11	BP-11		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-13	BP-13		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-15	BP-15		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-16	BP-16		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-17	BP-17		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-18	BP-18		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-19	BP-19		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-20	BP-20		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-21	BP-21		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-22	BP-22		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-23	BP-23		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-24	BP-24		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-25	BP-25		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-26	BP-26		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016
TRUE	Outfall	Kalaeloa Barbers Point Harbor	BP-27	BP-27		11/20/2014	TRUE	FALSE	FALSE	FALSE	11/20/2016

Attachment 21. ORI Forms

a. Dry Weather – Honolulu Harbor
b. Dry Weather – Keehi Industrial Park Area (KIPA)
c. Dry Weather – Kalaeloa Barbers Point Harbor (KBPH)
d. Wet Weather

2014 Honolulu Harbor Outfall Reconnaissance Inventory (ORI) Summary

EnviroServices and Training Center, LLC (ETC) conducted water-based outfall inspection conducted on April 15 to 17, 2014, and land-based upstream storm drain inlet inspection conducted on May 28, June 6 and September 30, 2014. Please note that field data was compared with previous ORI findings, previous maps, and the Army Corps of Engineers (ACOE) map in order to match outfall numbers. The ORI sheets have been amended to include a space for the previous outfall identification number where one was available. Also, outfalls have been named based on ACOE identification numbers. Where no ACOE number existed, other data was used to aid in determining location such as drain inlet number, previous ID, and/or location between two known outfall IDs. Further since some outfalls were not safe to inspect from the water, upstream drains were observed. In these instances, the drain number was included in parenthesis by the outfall number and a description was included in the notes portion. The findings have been summarized below:

- Flow was observed in the following outfalls:
    - P09-03, P09-04: A construction site was located adjacent to these outfalls and upstream drains could not be inspected. Upon follow-up, it was determined that the flow was apparently a result of air conditioning condensate.
    - P36-01 (SDD 4700): Air conditioning condensate from Hawaiian Ice.
    - P51C-03 (SDD 8210), P51B-04 (SDD 8182), P51B-03 (SDD 8090), P51B-05 (SDD 8080), P51B-07 (SDD 8000), P51A-04 (SDD 7960), P51A-07 (SDD 7850): Ocean surge.
    - Additionally, leaking potable water pipes were noted at P52-05 and P51C-06 and HDOT Harbors District Office was notified.
- Outfalls that were not inspected (Note follow-up will be conducted via upstream investigation):
    - SDD 0600, SDD 0700: Manholes were located within the building structure and had been sealed. Therefore, it can be concluded that no source of potential illicit discharge is present.
    - P07-03 (SDD 1230): **Follow-up will be conducted at SDMH 1232.**
    - P11-02 (SDD 1740): No upstream features to inspect; therefore, no illicit discharge is expected.
    - P19-05 and P20-01 could not be located on maps or in the field.

- P21-06 (SDD 2790). This outfall was inspected during a tenant inspection conducted on 7/9/14 and no illicit discharges were observed.
- P29-02 (3650). This outfall appears to be connected to the same drainline as P27-01(3630), which was inspected and did not have any signs of illicit discharge. Therefore, it can be assumed that this outfall would also not have any indications of illicit discharge.
- P29-03 (3670). There were no upstream features to inspect.
- P32-03 (SDD 4150): Cover on DI 4154 was too heavy to lift. **Follow-up will be conducted with possible inspection at DI 4152.**
- P32-04 (SDD 4180): **Follow-up with inspection at DI 4182.**
- P33-02 (SDD 4230): No upstream features to inspect; therefore, no illicit discharge expected.
- P34-05 (SDD 4360), P34-06 right (SDD 4370), P34-06 left (SDD 4374), P34-07 (SDD 4410), P35-01 (SDD 4450), P35-02 (SDD 4460), P35-03 (SDD 4470): Were not inspected due to construction activities. The construction team has not noted any illicit discharges during inspections.
- P37-02 (SDD 5000). **Follow-up will be conducted at upstream drains.**
- P41-02 (SDD 6980), P42-01, P42-PSI: Observations were made during tenant inspection at PSI and no illicit discharges were noted.
- P44/45-03 (SDD 7580), P44/55-04 (SDD 7560). **Follow-up will be conducted at upstream drains.**
- Pier 51C: SDD 8350: **Follow-up will be conducted at upstream SDMH 8352 since the outfall was likely submerged.**

- Drain inlets that require maintenance:
  - Pier 1: Filter fabric needs replaced on DI 0112 and DI 0122.
  - DI 0202 filter fabric needs adjusted and concrete may need to be removed from grate.
  - SDD 0539, SDD 0547, and SDFHO02 on Pier 2 are trench drains from the parking lot. Note that the tree roots had broken concrete, preventing flow to the outfall.
  - Filter fabric should be replaced on DI 3954.

- Photos were not obtained for the following either due to camera or human error, although inspection was performed:
    - No ID Assigned (SDFHO02), P11-08 (FD 1796), P19-07 (SDFHO 192552), P21-06 (SDD 2790), P34-02 (SDD 4310, DI 4312), P34-04 (SDD 4350, DI 4352).
- Pier 1: Upstream investigation of SDD 0170 verified the connections between drains DI 0172, 0174, and 0178 as depicted on the ACOE map. All drains were dry. DI 0174 had an apparent dandy bag on the grate that had deteriorated.

- Pier 2: Drywell FTZ1 was inspected and no water was present.

- Pier 11: All French drains appear to flow toward the harbor and therefore, each is assumed to have an outfall.
- Pier 24: Several small apparent outfalls were observed that were determined to be connections to roof drains that had been plugged. These were not included in the ORI list.

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0100**	***Previous Outfall ID:*** ***P01-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:08 AM	Form Completed By: Matt Moore
Lat: 21 ° 17 ' 46 " Long: 157 ° 52 ' 08.7 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0907, 0908

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Water appears to be from tide

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 0112)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:10 AM	Form Completed By: Matt Moore
Lat: 21 ° 17 ' 47.8 " Long: 157 ° 52 ' 08.3 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Black Photo #s: 0911

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0112 inspected. Filter fabric in place; however, it was partially ripped and should be replaced. Ocean surge could be heard flowing in and out of the pipe.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Drain inlet filter fabric needs replaced.

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 0122)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:12 AM	Form Completed By: Matt Moore
Lat: 21 ° 17 ' 49.8 " Long: 157 ° 52 ' 07.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0913, 0914

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0122 inspected. Filter fabric in place; however, it was partially ripped and should be replaced. Ocean surge could be heard flowing in and out of the pipe.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Drain inlet filter fabric needs replaced.

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 0202)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:22 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 17 ' 52.1 " Long: 157 ⁰ 52 ' 06.0 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0916, 0917

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0202 inspected. Cemented asphalt in grate. Filter fabric not completely covering inlet. Ocean water visible through fabric gaps.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 42	In Water Fully With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 0152)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:25 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 17 ' 54.0 " Long: 157 ⁰ 52 ' 05.0 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0919, 0920

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0152 inspected. Filter fabric in place. Adjacent manhole appeared to be an overflow from the inlet and contained clear water.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 0162)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:41 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 17 ' 56.5 " Long: 157 ⁰ 52 ' 03.6 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0930, 0931

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0162 inspected. No filter fabric. Submerged with ocean water.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions:	In Water: Fully With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0170 (DI 0172)**	***Previous Outfall ID:*** ***P02-05***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:45 AM	Form Completed By: Matt Moore
Lat: 21 ° 17 ' 58.2 " Long: 157 ° 52 ' 02.4 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0933

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream storm drain inlet DI 0172 inspected. Filter fabric in place and catch basin was dry.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0130 (DI 0508)**	***Previous Outfall ID:*** ***P02-06***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:22 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 01.7 " Long: 157 ⁰ 51 ' 59.4 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0947, 0948

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream drain inlets DI 0508, 0520, and 0522 inspected. No flow, no odor, some leaves. Green curb inlet protection in place.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (SDFHO02)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:29 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 01.6 " Long: 157 ° 51 ' 53.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s: No photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Trench drain from parking lot. No flow.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☐ Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
☑ Open Drainage	Concrete If Other, Please Describe	Trapezoid If Other, Please Describe		Depth: 1 Top Width: 2 Bottom Width: 2	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments: Concrete broken preventing discharge from lot.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0600**	***Previous Outfall ID:*** ***P02-11***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:15 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 04.0 " Long: 157 ⁰ 51 ' 56.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s:

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Manhole was sealed inside building. As a result, no illicit discharge is expected.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0630 (DI 0640)**	***Previous Outfall ID:*** ***P02-13***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:55 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 05.9 " Long: 157 ⁰ 51 ' 55.6 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0963, 0964

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream drain inlets DI 0650 and 0640 inspected. Both had no flow or odor and were protected with a curb inlet BMP.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0700**	***Previous Outfall ID:*** ***P03-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:30 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 09.4 " Long: 157 ⁰ 51 ' 52.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s:

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Manhole was sealed inside building. As a result, no illicit discharge is expected.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0720 (SDMH 0722)**	***Previous Outfall ID:*** ***24" Outfall***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 11:01 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 09.4 " Long: 157 ⁰ 51 ' 52.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0966

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream drain manhole SDMH 0722 inspected. Submerged, no flow, odor, or sheen.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0800 (DI 0804)**	***Previous Outfall ID:*** ***18" Outfall***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 11:13 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 11.1 " Long: 157 ⁰ 51 ' 51.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0970, 0971

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream trench drain inlet DI 0804 inspected. Stagnant water in deep hole at the center of trench drain. Trench drain had filter fabric and berm. Construction activities adjacent. No indications of illicit discharge.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 0956**	***Previous Outfall ID:*** ***P05-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 8:57 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 13.9 " Long: 157 ⁰ 51 ' 50.2 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0484

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries: Alii Kai Catamaran

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1000**	***Previous Outfall ID:*** ***P05-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:00 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 13.8 " Long: 157 ° 51 ' 51.6 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0485

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries: Alii Kai Catamaran

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1040**	***Previous Outfall ID:*** ***P05-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:07 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 16.5 " Long: 157 ⁰ 51 ' 53.0 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0486

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 16	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1150**	***Previous Outfall ID:*** ***P05-HECO2***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:11 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 19.7 " Long: 157 ° 51 ' 51.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0488

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries: HECO

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water: No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1160**	***Previous Outfall ID:*** ***P05-HECO3 and P05-HECO4***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:11 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 19.9 " Long: 157 ° 51 ' 51.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0489

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries: HECO

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Other If Other, Please Describe Semicircle	Double If Other, Please Describe Two outfalls adjacent	Diameter/Dimensions: 36 / 24	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments: Accumulated broken rack
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☐ Unlikely ☑ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1190**	***Previous Outfall ID:*** ***P05-HECO5***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:28 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 22.5 " Long: 157 ⁰ 51 ' 52.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0500

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries: HECO

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1500**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:14 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 23.0 " Long: 157 ° 51 ' 53.1 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0491

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1508**	***Previous Outfall ID:*** ***P08-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:32 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 23.2 " Long: 157 ° 51 ' 53.3 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0503

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1512**	***Previous Outfall ID:*** ***P08-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:30 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 23.0 " Long: 157 ⁰ 51 ' 53.7 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0501, 0502

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1520**	***Previous Outfall ID:*** ***P08-06***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:38 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 22.4 " Long: 157 ⁰ 51 ' 54.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0507

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1530**	***Previous Outfall ID:*** ***P08-10***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:42 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 21.2 " Long: 157 ° 51 ' 57.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0512

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Triple If Other, Please Describe	Diameter/Dimensions: 6, 4, 3	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1540**	***Previous Outfall ID:*** ***P08-12***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:44 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 20.4 " Long: 157 ° 51 ' 58.4 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0515

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1552**	***Previous Outfall ID:*** ***P09-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:49 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 22.7 " Long: 157 ⁰ 51 ' 58.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0519

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☑ Other: White Comments: Calcareous deposits

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1558**	***Previous Outfall ID:*** ***P09-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 9:57 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 21.4 " Long: 157 ⁰ 51 ' 58.6 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0524

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☑	Construction site at Aloha Tower. Drains could not be inspected.	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☑	Follow-up determined flow to be air conditioning condensate.	

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1570**	***Previous Outfall ID:*** ***P09-04***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 10:08 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 23.9 " Long: 157 ⁰ 51 ' 58.9 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0526

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☑	Construction site at Aloha Tower. Upstream drains could not be inspected due to construction.	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☑	Follow-up determined flow to be air conditioning condensate.	

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☐ Unlikely ☑ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1600**	***Previous Outfall ID:*** ***P09-05***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 10:10 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 26.1 " Long: 157 ⁰ 51 ' 58.6 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0528

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1710 (SDMH 1712)**	***Previous Outfall ID:*** ***P10-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 1:36 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 27.5 " Long: 157 ⁰ 51 ' 57.9 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020213

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream manhole SDMH 1712 was corroded and could not be opened. There were no other upstream features to inspect; therefore, it is assumed there are no illicit discharges.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1720 (SDMH 1722)**	***Previous Outfall ID:*** ***P10-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 1:34 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 28.1 " Long: 157 ⁰ 51 ' 57.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020210

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream manhole SDMH 1722 was corroded and could not be opened. There were no other upstream features to inspect; therefore, it is assumed there are no illicit discharges.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: SDD 1730 (SDMH 1732)	***Previous Outfall ID:*** *P10-03*
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Katie Davis / Rose Gutowski
Time: 1:33 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 28.9 " Long: 157 ⁰ 51 ' 56.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020204

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream manhole SDMH 1732 was corroded and could not be opened. There were no other upstream features to inspect; therefore, it is assumed there are no illicit discharges.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1744)**	***Previous Outfall ID:*** ***P11-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:24 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 29.7 " Long: 157 ⁰ 51 ' 55.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0199, 0200, 0201

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1744.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1764)**	***Previous Outfall ID:*** ***P11-04***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:20 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 30.6 " Long: 157 ⁰ 51 ' 54.6 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0192, 0193

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1764.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1766)**	***Previous Outfall ID:*** ***P11-05***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:22 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 29.9 " Long: 157 ⁰ 51 ' 54.9 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0196, 0197

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1766. Air conditioning condensate was flowing to the drain.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☑ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☑ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☑	Air Conditioning Condensate	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: SDD 1760 (SDMH 1782)	***Previous Outfall ID:*** *P11-06*
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:17 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 30.7 " Long: 157 ⁰ 51 ' 54.1 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0177

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of SDMH 1782 could not be completed. Manhole had corroded and could not be removed. However, since there were no other surface nodes, it is assumed that an illicit discharge could not be present.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1798)**	***Previous Outfall ID:*** ***P11-07***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:19 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 30.6 " Long: 157 ⁰ 51 ' 54.3 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0188

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1798. Drain inlet had no flow.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1796)**	***Previous Outfall ID:*** ***P11-08***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:18 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 30.6 " Long: 157 ⁰ 51 ' 54.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0184 (Photo didn't develop)

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1796.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1794)**	***Previous Outfall ID:*** ***P11-09***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:15 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 30.9 " Long: 157 ⁰ 51 ' 54.0 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: 0180, 0181

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1794. Drain inlet had no flow or odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1850 (FD 1824)**	***Previous Outfall ID:*** ***P11-10***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 11:40 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 31.3 " Long: 157 ⁰ 51 ' 53.5 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0983

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1824. Drain inlet had filter fabric and there was no flow or odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 1860 (FD 1836)**	***Previous Outfall ID:*** ***P11-11***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 11:39 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 31.6 " Long: 157 ⁰ 51 ' 53.1 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0980

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1836. Drain inlet had filter fabric. There was standing water present; however, likely due to recent rain event. There was no sheen or odor present.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1834)**	***Previous Outfall ID:*** ***P11-12***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 11:38 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 31.8 " Long: 157 ⁰ 51 ' 52.9 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Came Photo #s: 0978

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1834. Drain inlet had filter fabric and there was no flow or odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (FD 1854)**	***Previous Outfall ID:*** ***P11-13***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 11:37 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 32.0 " Long: 157 ⁰ 51 ' 52.7 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Black Photo #s: 0976

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of FD 1854. Drain inlet had filter fabric and there was no flow or odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2200**	***Previous Outfall ID:*** ***P15-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 10:54 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 42.4 " Long: 157 ⁰ 51 ' 55.5 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0546

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 8	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2300**	***Previous Outfall ID:*** ***P19-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:02 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 48.2 " Long: 157 ° 52 ' 01.5 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0550

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments: Apparent broken concrete around outfall
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2400 (DI 2724)**	***Previous Outfall ID:*** ***P19-08***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:21 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 46.8 " Long: 157 ⁰ 52 ' 01.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020237

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 2724. Drain inlet had filter fabric.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (SDFHO 192552)**	***Previous Outfall ID:*** ***P19-07***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:53 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 44.0 " Long: 157 ⁰ 52 ' 02.4 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s: No Photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of SDFHO 192552. Drain inlet was dry and had filter fabric. No photos taken.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2480 (DI 2484)**	***Previous Outfall ID:*** ***P19-06***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:34 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 45.0 " Long: 157 ⁰ 52 ' 02.1 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020240, P1020243

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 2484. Drain inlet had a concrete grate that prevented observation. DI 2410 inside warehouse connected to the line and did not have flow.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (SDFHO 192542)**	***Previous Outfall ID:*** ***P19-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 1:53 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 43.2 " Long: 157 ⁰ 52 ' 02.3 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020214, P1020215

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of SDFHO 192542.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 2830)**	***Previous Outfall ID:*** ***P19-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:00 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 42.6 " Long: 157 ⁰ 52 ' 02.3 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020222

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 2830. Stagnant water was visible, but did not indicate an illicit discharge.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (DI 2502)**	***Previous Outfall ID:*** ***P19-04***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:06 PM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 41.1 " Long: 157 ° 52 ' 02.6 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020226, P1020228

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 2502.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2590**	***Previous Outfall ID:*** ***P21-07***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:11 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 37.0 " Long: 157 ⁰ 52 ' 04.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0551

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2600**	***Previous Outfall ID:*** ***P21-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:12 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 36.9 " Long: 157 ° 52 ' 05.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0552

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2610**	***Previous Outfall ID:*** ***P21-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:15 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 36.8 " Long: 157 ⁰ 52 ' 05.5 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0554

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2640**	***Previous Outfall ID:*** ***P21-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:17 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 36.4 " Long: 157 ⁰ 52 ' 07.0 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0555

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 48x30	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2790**	***Previous Outfall ID:*** ***P21-06***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 7/9/2014	Investigators: Matt Moore
Time: 10:00 AM	Form Completed By: Katie Davis
Lat: 21 ⁰ 18 ' 36.5 " Long: 157 ⁰ 52 ' 07.9 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.01 48 Hrs: 0.01	Camera: Photo #s: No Photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Upstream investigation conducted. Depression in pavement collected storm water and discharged through two pipes to outfall. No illicit discharge observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 10 x 10	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2794**	***Previous Outfall ID:*** ***P21-04***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:25 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 36.5 " Long: 157 ⁰ 52 ' 07.9 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0557

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 2800**	***Previous Outfall ID:*** ***P22-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:29 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 37.6 " Long: 157 ⁰ 52 ' 09.3 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0558

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments: Concrete around outfall is chipping
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3000**	***Previous Outfall ID:*** ***P23-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:33 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 44.7 " Long: 157 ° 52 ' 12.3 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0559

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3070**	***Previous Outfall ID:*** ***P23-02***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:35 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 44.7 " Long: 157 ⁰ 52 ' 12.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0560

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3200**	***Previous Outfall ID:*** ***P23-03***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:37 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 44.2 " Long: 157 ° 52 ' 14.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0561, 0562

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3240**	***Previous Outfall ID:*** ***P24-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:41 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 44.0 " Long: 157 ° 52 ' 14.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0564

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3300**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:47 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 42.7 " Long: 157 ° 52 ' 13.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0566

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Double If Other, Please Describe	Diameter/Dimensions: 24 / 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☐ Spalling, cracking or chipping ☐ Peeling Paint ☑ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3500**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 11:56 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 40.1 " Long: 157 ° 52 ' 13.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0570

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3550**	***Previous Outfall ID:*** ***P25-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 12:06 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 38.9 " Long: 157 ⁰ 52 ' 12.6 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0575

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3610**	***Previous Outfall ID:*** ***P26-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 12:21 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 39.2 " Long: 157 ⁰ 52 ' 17.2 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0577

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3630**	***Previous Outfall ID:*** ***P27-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 4/16/2014	Investigators: Bryan Starks
Time: 12:25 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 38.0 " Long: 157 ⁰ 52 ' 17.5 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0578

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3900 (SDI 3902)**	***Previous Outfall ID:*** ***P31-01***
HDOT Location: Honolulu Harbor	Subwatershed: Nuuanu
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:35 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 41.6 " Long: 157 ⁰ 52 ' 28.1 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020246

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of SDI 3902. There was standing water in the drain, but no flow.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3920 (New Inlet)**	***Previous Outfall ID:*** ***P31-02***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 2:47 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 42.2 " Long: 157 ⁰ 52 ' 29.1 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020248

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of drain line revealed a new drain that was not previously on the map between the outfall and DI 4183. There was no flow visible in the drain inlet.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 3950 (DI 3962)**	***Previous Outfall ID:*** ***P31-03***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:00 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 43.3 " Long: 157 ⁰ 52 ' 30.6 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020255, P1020256

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 3962. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4000 (DI 4062)**	***Previous Outfall ID:*** ***P32-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:02 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 43.9 " Long: 157 ⁰ 52 ' 31.5 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020260, P1020261

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4062. Drain grate was constructed of wooden boards and standing water was observed inside. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4010 (SDI 4072)**	***Previous Outfall ID:*** ***P32-02***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:04 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 44.7 " Long: 157 ⁰ 52 ' 32.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020262, P1020263

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of SDI 4072. Drain grate was constructed of wooden boards and standing water was observed inside. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4200 (DI 4232 & 4204)**	***Previous Outfall ID:*** ***P33-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:13 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 48.0 " Long: 157 ⁰ 52 ' 38.0 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020268

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4204. DI 4204 had no flow, but had a fishy odor. Further investigation of the drainline at DI 4232 revealed no flow or odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4300 (DI 4302)**	***Previous Outfall ID:*** ***P34-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:20 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 50.8 " Long: 157 ⁰ 52 ' 40.3 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020270

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4302. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4310 (DI 4312)**	***Previous Outfall ID:*** ***P34-02***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:21 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 52.1 " Long: 157 ⁰ 52 ' 39.5 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s: No Photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4312. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4320 (DI 4322)**	***Previous Outfall ID:*** ***P34-03***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:22 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 53.2 " Long: 157 ⁰ 52 ' 38.9 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: ETC Blue Photo #s: P1020274

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4322. No flow was observed.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: SDD 4350 (DI 4352)	***Previous Outfall ID:*** *P34-04*
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 6/6/2014	Investigators: Rose Gutowski
Time: 3:23 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 53.9 " Long: 157 ⁰ 52 ' 38.4 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 72 Rainfall (in.) Last 24 Hrs: 0.04 48 Hrs: 0.04	Camera: Photo #s: No Photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Outfall unsafe to inspect. Upstream investigation of DI 4352. Drain was sealed with BMPs from adjacent construction.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4500**	***Previous Outfall ID:*** ***P35-04***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:05 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 01.6 " Long: 157 ° 52 ' 35.4 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0589

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4600**	***Previous Outfall ID:*** ***P35-05***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:01 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 02.1 " Long: 157 ° 52 ' 36.5 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.03 48 Hrs: 0.03	Camera: ETC Camera 4 Photo #s: 0588

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments: Rock wall surrounding outfall crumbling.
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4700**	***Previous Outfall ID:*** ***P36-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 8:57 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 02.1 " Long: 157 ° 52 ' 39.8 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0587

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Moderate				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☑ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☑	Apparent source is Nico's, ice condensate which is not an illicit discharge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☑	☑ Brown ☐ Orange ☑ Green ☐ Other: Comments: Apparent algae growth

Section 6: Overall Outfall Characterization

☐ Unlikely ☑ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 4900**	***Previous Outfall ID:*** ***P37-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:10 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 19 ' 01.3 " Long: 157 ⁰ 52 ' 41.5 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: Photo #s: No Photo

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☑ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 5000**	***Previous Outfall ID:*** ***P37-02***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 10/14/2014	Investigators: Lisa Baxter
Time: 10:06 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 19 ' 02.1 " Long: 157 ⁰ 52 ' 36.9 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 80 Rainfall (in.) Last 24 Hrs: 0.06 48 Hrs: 0.08	Camera: ETC Camera 4 Photo #s: 1759

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 5050**	***Previous Outfall ID:*** ***P38-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:34 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 00.3 " Long: 157 ° 52 ' 45.9 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0591

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Moderate				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☑ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☑	Melted ice from fish packing company	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☑		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☑ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☐ Unlikely ☑ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 5100**	***Previous Outfall ID:*** ***P38-02***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:39 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 04.6 " Long: 157 ° 52 ' 44.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0592

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 5150**	***Previous Outfall ID:*** ***P38-04***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 9:48 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 08.4 " Long: 157 ° 52 ' 40.9 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0595

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☑	☑ Excessive ☐ Inhibited Comments: Mangroves
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 5800**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 10:13 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.01 48 Hrs: 0.01	Camera: ETC Camera 4 Photo #s: 0599

Land use in drainage Area (check all that apply):

- [x] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [ ] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[x] Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: Partially
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes [ ] No [x] ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 6500**	***Previous Outfall ID:*** ***P41-03***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 10:18 AM	Form Completed By: Matt Moore
Lat: 21 ° 19 ' 11.7 " Long: 157 ° 52 ' 57.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0600

Land use in drainage Area (check all that apply):

- [x] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [ ] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[x] Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 108x96	In Water Partially With Sediment: No
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes [ ] No [x] ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 6970**	***Previous Outfall ID:*** ***P41-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 10:20 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 19 ' 11.1 " Long: 157 ⁰ 52 ' 57.7 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0601

Land use in drainage Area (check all that apply):

- [x] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [ ] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[x] Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water No With Sediment: No
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes [ ] No [x] ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 6990**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 10:23 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0603

Land use in drainage Area (check all that apply):

- [x] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [ ] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[x] Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water Partially With Sediment: No
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes [ ] No [x] ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☑	☐ Spalling, cracking or chipping ☐ Peeling Paint ☑ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 7600**	***Previous Outfall ID:*** ***P44/45-01***
HDOT Location: Honolulu Harbor	Subwatershed: Kapalama
Inspection Date: 4/17/2014	Investigators: Bryan Starks
Time: 10:42 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 56.1 " Long: 157 ⁰ 53 ' 13.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.07 48 Hrs: 0.10	Camera: ETC Camera 4 Photo #s: 0607

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 7800**	***Previous Outfall ID:*** ***P51A-01***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 1:04 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 49.8 " Long: 157 ⁰ 53 ' 11.7 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0476

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 30	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 7850**	***Previous Outfall ID:*** ***P51A-07***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:52 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 49.5 " Long: 157 ⁰ 53 ' 08.2 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0472

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean Surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 7880**	***Previous Outfall ID:*** ***P51A-05***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:48 PM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 50.0 " Long: 157 ° 53 ' 04.7 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0469

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 7960**	***Previous Outfall ID:*** ***P51A-04***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:38 PM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 49.0 " Long: 157 ° 53 ' 06.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0467

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Moderate				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments: Grey stains on flow line
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (SDD 8000)**	***Previous Outfall ID:*** ***P51B-07***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:13 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 48.3 " Long: 157 ⁰ 53 ' 01.8 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0458

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 42	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☑ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☐ Unlikely ☑ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **To Be Verified (SDD 8070)**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:08 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 49.1 " Long: 157 ⁰ 52 ' 59.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0456

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water Fully With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8080**	***Previous Outfall ID:*** ***P51B-05***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 12:03 PM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 47.6 " Long: 157 ⁰ 52 ' 57.6 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0453

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 18	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8090**	***Previous Outfall ID:*** ***P51B-03***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:58 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 48.4 " Long: 157 ⁰ 53 ' 02.3 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0452

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 24	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Moderate				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: SDD 8182	***Previous Outfall ID:*** *P51B-04*
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:53 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 47.5 " Long: 157 ° 52 ' 56.6 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0448

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8130**	***Previous Outfall ID:*** ***P51C-01***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:35 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 47.0 " Long: 157 ° 52 ' 54.0 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0445

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Fully With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8190**	***Previous Outfall ID:*** ***P51C-05***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:33 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 46.9 " Long: 157 ° 52 ' 53.1 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0444

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8194**	***Previous Outfall ID:*** ***P51C-06***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2015	Investigators: Bryan Starks
Time: 11:31 AM	Form Completed By: Katie Davis
Lat: 21 ° 18 ' 48.6 " Long: 157 ° 52 ' 56.2 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0443

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8198**	***Previous Outfall ID:*** ***P51C-04***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:26 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 46.7 " Long: 157 ° 52 ' 52.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0442

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8200**	***Previous Outfall ID:*** ***No Previous ID***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:22 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 47.8 " Long: 157 ° 52 ' 50.8 "	GPS Unit: Google Earth GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0439

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water Fully With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8206**	***Previous Outfall ID:*** ***P51C-02***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:18 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 46.6 " Long: 157 ° 52 ' 51.3 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0437

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8210**	***Previous Outfall ID:*** ***P51C-03***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 11:14 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 46.4 " Long: 157 ° 52 ' 50.2 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0435

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	STEEL If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 6	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☑ No ☐ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)	Trickle				

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☑	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☑ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐	Ocean surge	☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8442**	***Previous Outfall ID:*** ***P52-05***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:54 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 45.8 " Long: 157 ° 52 ' 47.6 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0434

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12x12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8500**	***Previous Outfall ID:*** ***P52-01***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:51 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 44.9 " Long: 157 ⁰ 52 ' 46.3 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0432

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8556**	***Previous Outfall ID:*** ***P52-04***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:45 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 43.2 " Long: 157 ° 52 ' 43.8 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0431

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8560**	***Previous Outfall ID:*** ***P52-03***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:36 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 41.8 " Long: 157 ° 52 ' 41.6 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0429

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8850**	***Previous Outfall ID:*** ***P52-02***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:22 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 40.4 " Long: 157 ° 52 ' 39.5 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0428

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 96	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8870**	***Previous Outfall ID:*** ***P53-03***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:08 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 39.1 " Long: 157 ° 52 ' 37.3 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0423

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8900**	***Previous Outfall ID:*** ***P53-02 (right)***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:10 AM	Form Completed By: Matt Moore
Lat: 21 ⁰ 18 ' 37.6 " Long: 157 ⁰ 52 ' 35.1 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0425

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8910**	***Previous Outfall ID:*** ***P53-02 (left)***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:10 AM	Form Completed By: Katie Davis
Lat: 21 ⁰ 18 ' 37.6 " Long: 157 ⁰ 52 ' 35.1 "	GPS Unit: GPS LMK #:
Temp (⁰F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0425

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰ F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **SDD 8930**	***Previous Outfall ID:*** ***P53-01***
HDOT Location: Honolulu Harbor	Subwatershed: Sand Island
Inspection Date: 4/15/2014	Investigators: Bryan Starks
Time: 10:17 AM	Form Completed By: Matt Moore
Lat: 21 ° 18 ' 36.1 " Long: 157 ° 52 ' 32.7 "	GPS Unit: GPS LMK #:
Temp (°F): 79 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.19	Camera: ETC Camera 4 Photo #s: 0426

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water No With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☑ No ☐ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☑	☐ Oily ☑ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID: KIPA-00	*Previous ID:*
HDOT Location: KIPA	Subwatershed: Kalihi
Inspection Date: 7/24/14	Investigators: Katie Davis
Time (Military): 0910	Form completed by: Katie Davis
Lat: 21° 19' 21.7"N Long: 157° 53' 36.62"W	GPS Unit: Google Earth GPS Landmark:
Temp (°F): 86 Rainfall (in.) Last 24 Hrs: 0 48 Hrs: 0	Camera: ETC Blue Photo #s: P1020316

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☒ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: Small boat launch, Ameron Hawaii Concrete

Notes (e.g., origin of outfall, if known): Sheet flow

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Sheet flow at low point in topography		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☒ No ***If No, Skip to Section 5***				
Flow Description	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
☐Flow #1	Volume		Liter	
	Time to fill		Sec	
☐Flow #2	Flow depth		In	
	Flow width		Ft, In	
	Measured length		Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☐	Description of discharge source:			☐ Illicit Discharge (Trigger to Obvious)
Other Observations					

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Sediment ☐ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations	Ponded water present near outfall likely due to tidal influence as it was not flowing.		

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID: KIPA-01	*Previous ID: KIPA-01*
HDOT Location: KIPA	Subwatershed: Kalihi
Inspection Date: 7/24/14	Investigators: Katie Davis
Time (Military): 0908	Form completed by: Katie Davis
Lat: 21° 19' 34.08"N Long: 157° 53' 38.76"W	GPS Unit: Google Earth GPS Landmark:
Temp (°F): 86 Rainfall (in.) Last 24 Hrs: 0 48 Hrs: 0	Camera: ETC Blue Photo #s: P1020301 - P1020310

Land Use in Drainage Area (Check all that apply):

- ☒ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: Ron's Concrete

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Sheet flow at low point in topography		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☒ No ***If No, Skip to Section 5***				
Flow Description	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐Flow #1	Volume		Liter	
	Time to fill		Sec	
☐Flow #2	Flow depth		In	
	Flow width		Ft, In	
	Measured length		Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☐	Description of discharge source:			☐ Illicit Discharge (Trigger to Obvious)
Other Observations					

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Sediment ☐ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☒	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☒ Other: Sediment	Ocean water in the area appeared murky. Sediment likely discharged from dirt driveway in the area.
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations	Tenant adjacent to outfall area had stockpiles that were not contained, construction debris, and an uncovered container of oil in the area. After speaking with the tenant, they began corrective actions immediately.		

Section 6: Overall Outfall Characterization

☐ Unlikely ☒ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID: KIPA-02	*Previous ID: KIPA-02*
HDOT Location: KIPA	Subwatershed: Kalihi
Inspection Date: 7/24/14	Investigators: Katie Davis
Time (Military): 0852	Form completed by: Katie Davis
Lat: 21° 19' 33.37"N Long: 157° 53' 32.32"W	GPS Unit: Google Earth GPS Landmark:
Temp (°F): 86 Rainfall (in.) Last 24 Hrs: 0 48 Hrs: 0	Camera: ETC Blue Photo #s: P1020290 – P1020297

Land Use in Drainage Area (Check all that apply):

- ☒ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries:_____

Notes (e.g., origin of outfall, if known): Canal that appears to have its origin along the access road to KIPA.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☒ Trapezoid ☐ Parabolic ☐ Other:		Depth: 12 Top Width: 36 Bottom Width: 24	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☒ No ***If No, Skip to Section 5***				
Flow Description	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐Flow #1	Volume		Liter	
	Time to fill		Sec	
☐Flow #2	Flow depth		In	
	Flow width		Ft, In	
	Measured length		Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☐	Description of discharge source:			☐ Illicit Discharge (Trigger to Obvious)
Other Observations					

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☒	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	Concrete barriers had fallen into the canal.
Deposits/Stains	☒	☐ Oily ☐ Flow Line ☐ Paint ☐ Sediment ☒ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations	Pipe flowing into canal had been plugged with a rock. Silt fence along canal boundary was not properly installed. Materials were being stored over the canal.		

Section 6: Overall Outfall Characterization

☐ Unlikely ☒ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID: KIPA-03	*Previous ID: KIPA-03*
HDOT Location: KIPA	Subwatershed: Kalihi
Inspection Date: 7/24/14	Investigators: Katie Davis
Time (Military): 0833	Form completed by: Katie Davis
Lat: 21° 19' 36.78"N Long: 157° 53' 29.49"W	GPS Unit: Google Earth GPS Landmark:
Temp (°F): 86 Rainfall (in.) Last 24 Hrs: 0 48 Hrs: 0	Camera: ETC Blue Photo #s: P1020284 – P1020287 Camera: Harbor's Camera Photo #s: IMG_1120 - 1126

Land Use in Drainage Area (Check all that apply):

- ☒ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: Jas W Glover

Notes (e.g., origin of outfall, if known): Origin appears to continue into commercial / industrial area to the east. Upstream manholes could not be located.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☒ Concrete ☒ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☒ Other: Box culvert that turns into natural ditch		Depth: 36 Top Width: 36 Bottom Width: 36	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☒ Yes ☐ No ***If No, Skip to Section 5***				
Flow Description	☒ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐Flow #1	Volume		Liter	
	Time to fill		Sec	
☐Flow #2	Flow depth		In	
	Flow width		Ft, In	
	Measured length		Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☒ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☒	☒ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☒ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☒	Description of discharge source: Unable to locate upstream drainage features.			☐ Illicit Discharge (Trigger to Obvious)
Other Observations	Flow appeared clear as if it were from a natural spring.				

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☒	☐ Oily ☒ Flow Line ☐ Paint ☐ Sediment ☐ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations			

Section 6: Overall Outfall Characterization

☐ Unlikely ☒ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Background Data

Outfall ID: KIPA-04	*Previous ID: KIPA-04*
HDOT Location: KIPA	Subwatershed: Kalihi
Inspection Date: 9/30/14	Investigators: Matt Moore
Time (Military): 0855	Form completed by: Matt Moore
Lat: 21° 19' 40.47"N Long: 157° 53' 27.40"W	GPS Unit: Google Earth GPS Landmark: Drainage Grate
Temp (○F): 92 Rainfall (in.) Last 24 Hrs: 0.01 48 Hrs: 0.01	Camera: Matt's iPhone Photo #s: IMG_0160-0166

Land Use in Drainage Area (Check all that apply):

- ☒ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes (e.g., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☒ **Open drainage**	☐ Concrete ☒ Earthen ☐ rip-rap ☐ Other:	☐ Trapezoid ☒ Parabolic ☐ Other: _____		Depth: 42 Top Width: 144 Bottom Width: 36	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☒ No ***If No, Skip to Section 5***				
Flow Description	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
☐Flow #1	Volume		Liter	
	Time to fill		Sec	
☐Flow #2	Flow depth		In	
	Flow width		Ft, In	
	Measured length		Ft, In	
	Time of travel		Sec	
Temperature			°F	
pH			pH Units	Test strip/Probe
Ammonia			ppm	Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Upstream Investigation	☐	Description of discharge source:			☐ Illicit Discharge (Trigger to Obvious)
Other Observations					

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Sediment ☐ Trash ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Other Observations			

Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Photograph 1: KIPA-00

Photograph 2 KIPA-01

Photograph 3: KIPA-01

Photograph 4: KIPA-01 adjacent dirt driveway.

Photograph 5: KIPA-01 adjacent dirt driveway.

Photograph 6: KIPA-02 with some trash and materials present.

Photograph 7: KIPA-02 Concrete barrier displaced.

Photograph 8: KIPA-02 Concrete barrier displaced.

Photograph 9: KIPA-02 Silt fence.

Photograph 10: KIPA-02 trash and blocked pipe.

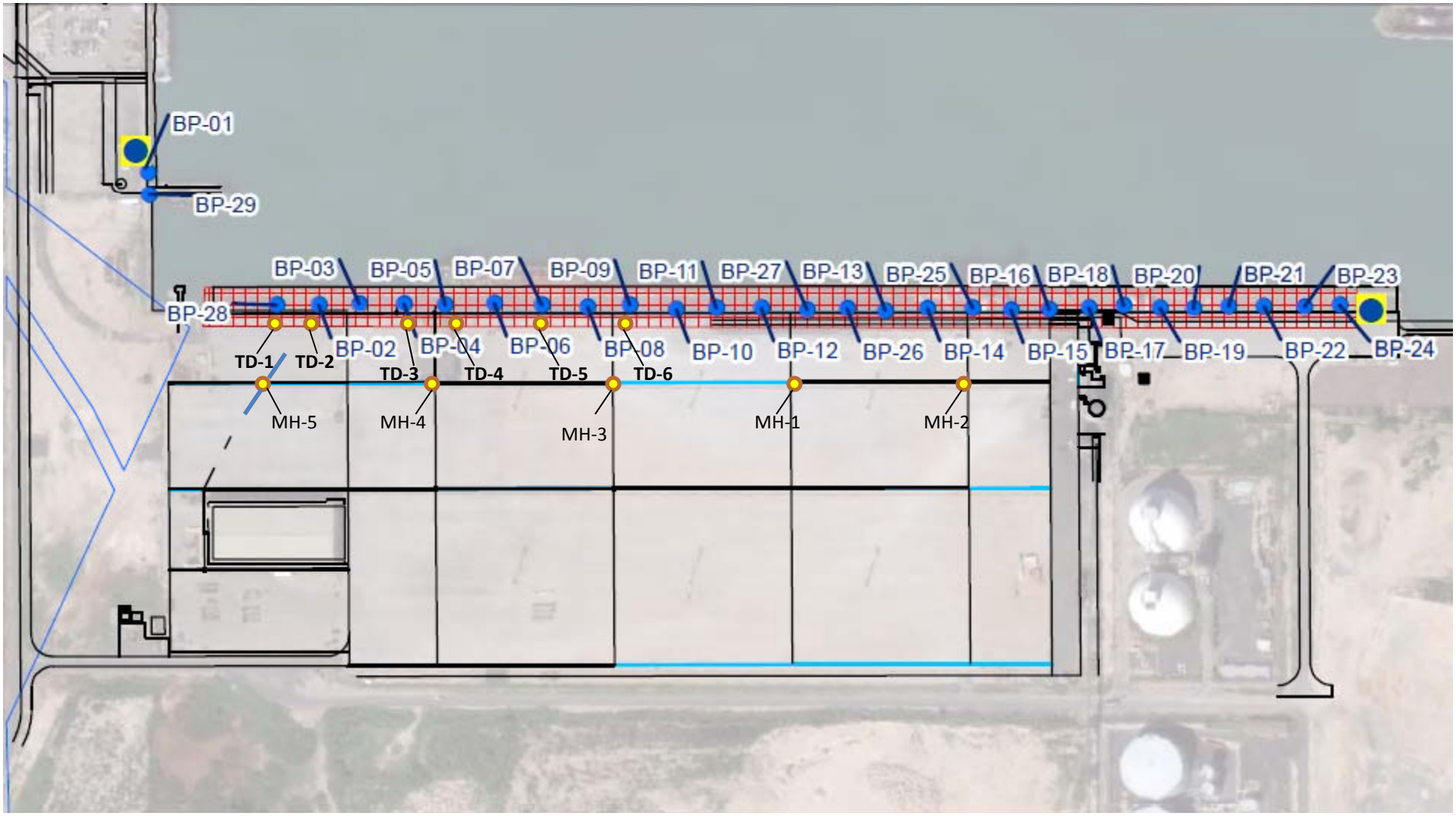
Photograph 11: KIPA-03

Photograph 12: KIPA-03

Photograph 13: KIPA-04 swale along tenant property

Photograph 14: KIPA-04 drainage grate

Kalaeloa Barbers Point Harbor
ORI May 28, 2014



Summary:

•Outfalls near finger pier were inspected (BP-01 and BP-29); however, based on the site conditions, the remainder of the outfalls were inspected via upstream storm trench drains and inlets at Piers 5A and 5.

•No illicit discharges observed. Minor sediment/coal build-up around TD-5 and TD-6.

•ORI team was not able to inspect Pier 6 and 7 due to Harbor activities (approx foot marker 1300 and higher).

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-01**	***Previous Outfall ID:*** ***BP-01***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:10 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: Katie's Camera Photo #s: WP_20140528_003

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Partially in water, no color, no sheen, no odor

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Box If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 72 x 18	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-02**	***Previous Outfall ID:*** ***BP-02***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:15 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020095, P1020098

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (2) at the 200' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-03**	***Previous Outfall ID:*** ***BP-03***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:18 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020084, P1020085

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the manhole (5) at the 150' marker, no flow, no trash, no odor

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-04**	***Previous Outfall ID:*** ***BP-04***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:23 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020101, P1020104

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (3) at the 400' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-05**	***Previous Outfall ID:*** ***BP-05***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:27 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020107

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (4) at the 500' marker, no flow, no trash, no odor

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-06**	***Previous Outfall ID:*** ***BP-06***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:33 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020079, P1020080

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the manhole (4) at the 600' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-07**	***Previous Outfall ID:*** ***BP-07***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:35 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020111

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (5) at the 850' marker, no flow, no trash, no odor.

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-08**	***Previous Outfall ID:*** ***BP-08***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:37 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020115

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (6) at the 900' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-09**	***Previous Outfall ID:*** ***BP-09***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 9:48 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020068, P1020074

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the manhole (3) at the 900' marker, no flow, no trash, no odor

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-12**	***Previous Outfall ID:*** ***BP-12***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:01 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020059, P1020060

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the manhole (1) at the 75' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-14**	***Previous Outfall ID:*** ***BP-14***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:06 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020063, P1020064

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the manhole (2) at the 1750' marker, no flow, no trash, no odor

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 36	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-28**	***Previous Outfall ID:*** ***BP-28***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:38 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: P1020093

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Appears to be connected to the trench drain (1) at the 75' marker, no flow, no trash, no odor. Minor sediment build up

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	PVC If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory Collection Field Sheet

Section 1: Background Data

Outfall ID: **BP-29**	***Previous Outfall ID:*** ***BP-29***
HDOT Location: Kalaeloa Barbers Point Harbor	Subwatershed: Makaiwa
Inspection Date: 5/28/2014	Investigators: Katie Davis / Rose Gutowski
Time: 10:40 AM	Form Completed By: Matt Moore
Lat: ° ' " Long: ° ' "	GPS Unit: GPS LMK #:
Temp (°F): 83 Rainfall (in.) Last 24 Hrs: 0.00 48 Hrs: 0.00	Camera: ETC Camera 4 Photo #s: WP_20140528_004

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Possibly abandoned, no color, no sheen, no floatables

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☑ Closed Pipe	RCP If Other, Please Describe	Circular If Other, Please Describe	Single If Other, Please Describe	Diameter/Dimensions: 12	In Water Partially With Sediment: No
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow present?	Yes ☐ No ☑ ***If No, leave section 3 blank and skip to section 5***				
Flow Description (If Present)					

Section 3: Quantitative Characterization

PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	Stop Watch
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width		Ft., In.	Tape Measure
	Measured Length		Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Collection Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Are any Physical Indicators Present in the Flow? Yes ☐ No ☐ *(If NO, leave section 4 blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Turbidity	☐	See Severity	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Floatables (Does not include trash)	☐	☐ Sewage (toilet paper, etc.) ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 - Minor ☐ 2 - Substantial ☐ 3 - Severe
Upstream Investigation	☐		☐ Illicit Discharge (Trigger to Obvious)
Other Observations	☐		

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Are physical indicators not related to flow present? Yes ☐ No ☑ *(If NO, leave section 5 blank and go to section 6)*

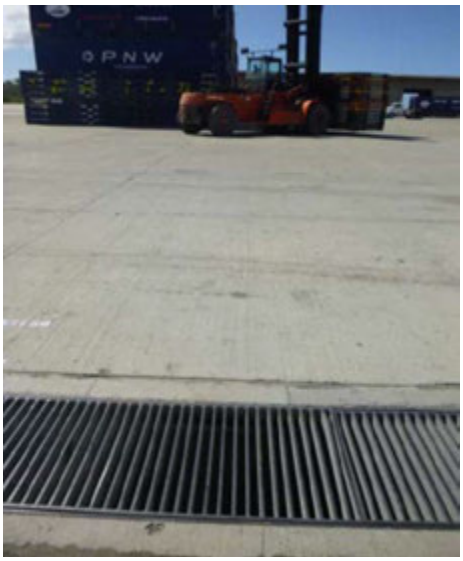
INDICATOR	CHECK if Present	DESCRIPTION
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion Comments:
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other: Comments:
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited Comments:
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other: Comments:
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other: Comments:

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

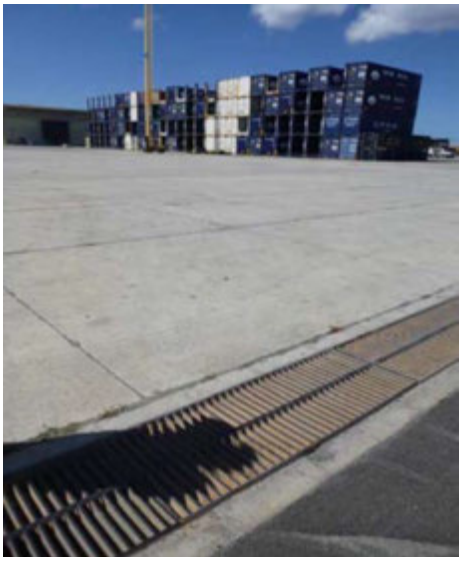
Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall ID		**BP-01**	
Pier			
Land Use		Industrial	
Type		Closed Pipe	
Material		RCP	
Shape		Box	
Grouping		Single	
Dimensions		72 in x 18 in	
Submerged	Partially	Open Drainage	No
Outfall Characterization		Unlikely	



Outfall ID		**BP-02**	
Pier		5A	
Land Use		Industrial	
Type		Closed Pipe	
Material		RCP	
Shape		Circular	
Grouping		Single	
Dimensions		12 inches	
Submerged		Open Drainage	No
Outfall Characterization		Unlikely	

Outfall ID		**BP-03**	
Pier		5A	
Land Use		Industrial	
Type		Closed Pipe	
Material		RCP	
Shape		Circular	
Grouping		Single	
Dimensions		36 inches	
Submerged		Open Drainage	No
Outfall Characterization		Unlikely	

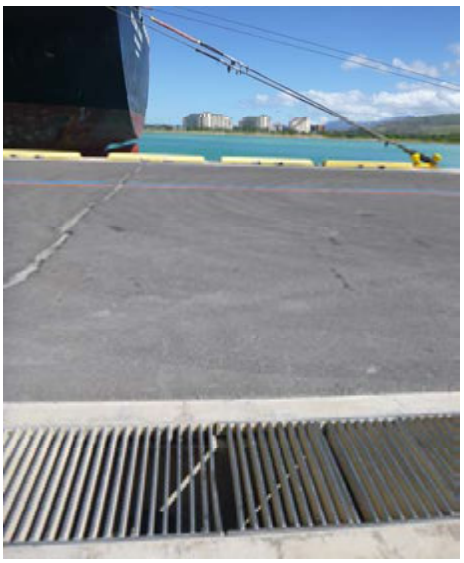


Outfall ID	**BP-04**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	12 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-05**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	12 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-06**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	36 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-07**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	12 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

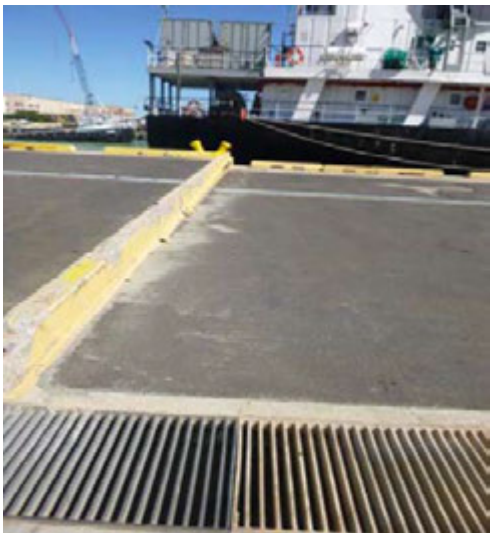


Outfall ID	**BP-08**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	12 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-09**	
Pier	5	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	36 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-12**	
Pier	5A	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	36 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID	**BP-14**	
Pier	6	
Land Use	Industrial	
Type	Closed Pipe	
Material	RCP	
Shape	Circular	
Grouping	Single	
Dimensions	36 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	



Outfall ID	**BP-28**	
Pier	5A	
Land Use	Industrial	
Type	Closed Pipe	
Material	PVC	
Shape	Circular	
Grouping	Single	
Dimensions	12 inches	
Submerged	Open Drainage	No
Outfall Characterization	Unlikely	

Outfall ID		**BP-29**	
Pier			
Land Use		Industrial	
Type		Closed Pipe	
Material		RCP	
Shape		Circular	
Grouping		Single	
Dimensions		12 inches	
Submerged	Partially	Open Drainage	No
Outfall Characterization		Unlikely	

Honolulu Harbor Wet Weather Outfall Inspection

The information provided below is based on wet weather outfall inspections conducted on December 3 and 30, 2014 at Honolulu Harbor. Wet weather inspections were conducted in accordance with the Outfall Reconnaissance Inventory and Inspection Program (ORIIP) Manual. High risk outfalls associated with construction activities were inspected per the ORIIP Manual. Careful consideration was taken during wet weather inspections to follow safety protocol outlined in the ORIIP Manual.

Information gathered in the field was compared to previous ORI, previous maps, and the Army Corps of Engineers (ACOE) map. Photos were taken in order to orient and justify outfall locations, which are available below in the Photo Log. The following observations and conclusions were made in regards to the wet weather outfall inspections:

December 3, 2014 –

At approximately 11:30 AM, ETC and Harbors Environmental Section personnel mobilized to the first construction site with necessary rain protection and personal protective equipment.

- **Pier 1**
  - *SDD 0170* – A slight sheen was visible near the outfall location at the pier's edge. No colors, odors, floatables, solids, or other signs of non-stormwater discharges were observed. Outfall is characterized as unlikely to any illicit discharge concerns.
  - *To Be Verified (DI 0202)* – A slight sheen was visible near the outfall location at the pier's edge. Some leaves were observed floating near and around the outfall location. No colors, odors, floatables, solids, or other signs of non-stormwater discharges were observed. Outfall is characterized as unlikely to any illicit discharge concerns.
  - *Notes:* Construction site was located approximately 400 feet away from the edge of Pier 1. Site location is near the southern entrance to the harbor. Inspectors tried to inspect outfalls closer to the harbor's entrance (south of construction site), however Department of Homeland Security was conducting an exercise and the area was inaccessible.

- **Pier 35**
  - *SDD 4500* – A slight to moderate sheen was visible near the outfall location. Some floatable trash and litter debris was observed near the outfall location. An oil boom was observed to be previously installed (installation date is unknown) and appeared to be containing the sheen and floatable trash/litter within its boundary. No colors, odors, solids, or other signs of non-stormwater discharges

were observed. Outfall is characterized as unlikely to any illicit discharge concerns.

- *SDD 4460* – A slight sheen was visible near the outfall location. No colors, odors, floatables, solids, or other signs of non-stormwater discharges were observed. Outfall is characterized as unlikely to any illicit discharge concerns.
- *SDD 4450* – A slight sheen was visible near the outfall location. No colors, odors, floatables, solids, or other signs of non-stormwater discharges were observed. Outfall is characterized as unlikely to any illicit discharge concerns.
- *Notes:* At time of inspection, Harbors personnel noted that outfall SDD 4500 also drains a portion of North Nimitz Highway.

- **Pier 42E**
  - *Notes:* The December 3, 2014 wet weather inspection did not include Pier 42E due to the inspectors requiring permission to access the site.

December 30, 2014 –

ETC and Harbors personnel were not able to conduct a wet weather outfall inspection of the remaining outfalls on Pier 42E due to site accessibility issues.

PHOTO LOG

SDD 0170

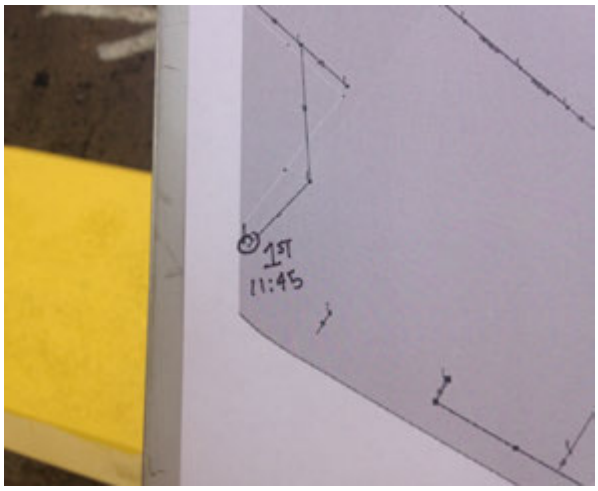


Photo 1 Description: Photo showing location data and notes.	**Photo 2 Description**: View of parking lot from outfall SDD 0170. Perimeter of construction site is outlined by the black dust fence highlighted above.
Photo 3 Description: Foot marker 1750 denoting where outfall SDD 0170 is located.	**Photo 4 Description:** Photo of outfall SDD 0170 taken directly overlooking the pier. A slight sheen is seen on the water in and around the outfall.

To Be Verified (DI 0202)

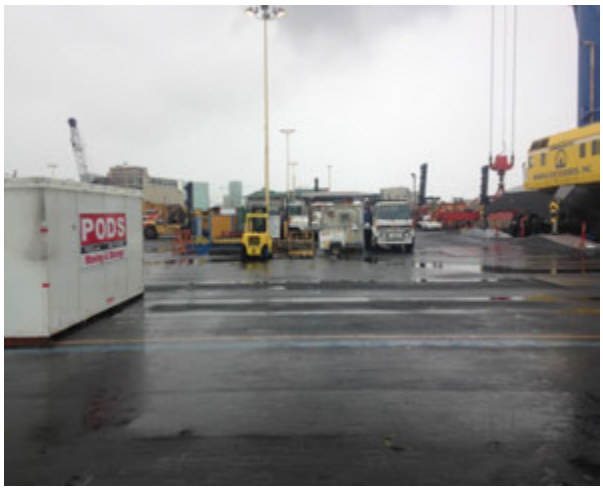


Photo 1 Description: View of pier deck from outfall "To Be Verified (DI 0202)".	**Photo 2 Description**: Foot marker 2200 denoting where "To Be Verified (DI 0202)" is located.
Photo 3 Description: View of water from directly above the pier. A slight sheen is seen in and around the outfall location with some leaves scattered on top of the water.	**Photo 4 Description:** A closer look at the slight petroleum sheen observed at outfall "To Be Verified (DI 0808)". Leaves are seen scattered on top of the water.

SDD 4500

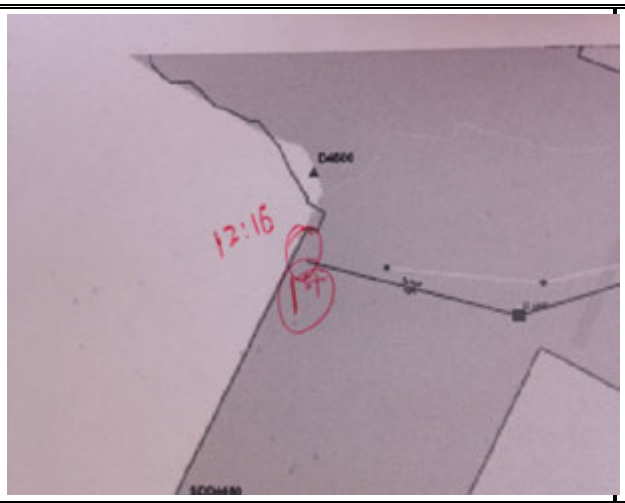


Photo 1 Description: Photo showing location data and notes.

Photo 2 Description: Foot marker 00 denoting where outfall SDD 4500 is approximately located.

Photo 3 Description: Photo is looking back at outfall which is located near heavy vegetation in the top right corner. A sheen is visible inside (top of picture) the oil booms.

Photo 4 Description: A sheen is visible to the right (inland) of the oil boom barrier.

SDD 4460

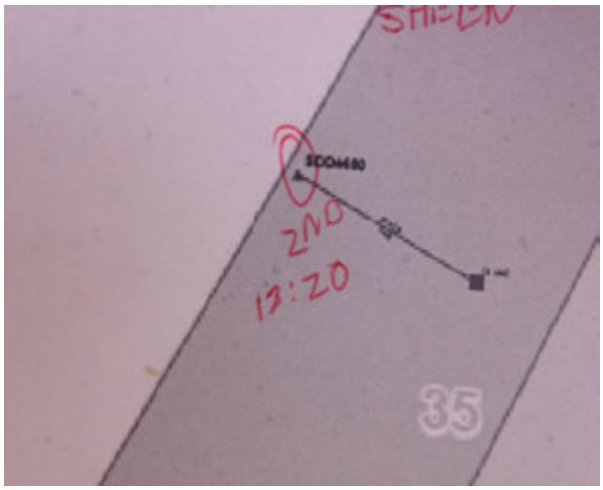


Photo 1 Description: Photo showing location data and notes.	**Photo 2 Description**: Foot marker 250 denoting where outfall SDD 4460 is approximately located.
Photo 3 Description: View of pier deck from outfall SDD 4460.	**Photo 4 Description:** View of water from directly above the pier at outfall SDD 4460. A slight sheen is visible on top of the water.

SDD 4450

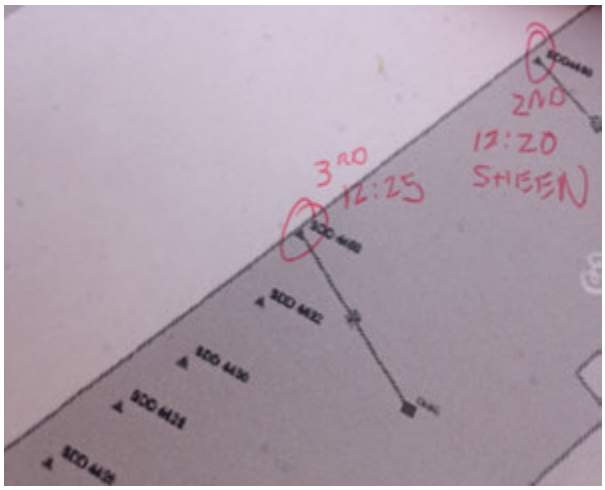


Photo 1 Description: Photo showing location data and notes.	**Photo 2 Description**: View of pier deck from outfall SDD 4450.
Photo 3 Description: View of water from directly above the pier at outfall SDD 4450. A slight sheen is visible on top of the water.	

Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Section 1: Background Data

Subwatershed:	NUUANU	Outfall ID:	SDD 0170 (DI 0172)
Inspection Date:	12/3/14	Time:	11:45 AM
Investigators:	MATT MOORE, JOY ZHANG	Form Completed By:	MATT MOORE
Temp: (F°):	87	Rainfall (in.) Last 24 Hrs:	0.51 Last 48 hours: 0.51
Lat:	21° 17' 58.20" Long: 157° 52' 02.48"	GPS Unit:	GOOGLE EARTH GPS LMK #:
Camera:	MATT'S iPHONE	Photo #s:	IMG_0830, IMG_0831, IMG_0832, IMG_0833

Land use in drainage Area (check all that apply):

- [ ] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [x] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.

Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[ ] Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] In-Stream	(applicable when collecting samples)				
Flow Present	Yes [x]	No [ ]	*If No, skip to section 5*		
Flow Description (If Present)					

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width	' "	Ft., In.	Tape Measure
	Measured Length	' "	Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			°F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Flowing Outfall Indicators: Physical Indicators Present: Yes ☑ No ☐ *(If NO, leave blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1-Faint colors in sample bottle	☐ 2-Clearly visible in sample bottle	☐ 3-Cleary visible in outfall flow
Turbidity	☐	See Severity	☐ 1-Slight cloudiness	☐ 2-Cloudy	☐ 3-Opaque
Floatables-Does not include trash!!	☑	☐ Sewage (toilet paper, etc.) ☑ Petroleum (oil sheen) ☐ Other:	☑ 1-Few/slight; orgin not obvious	☐ 2-Some; indications of orgin (e.g., possible suds or oil sheen)	☐ 3-Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Physical Indicators:Not Related to Flow Present: Yes ☐ No ☑ *(If NO, leave blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other:	
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Section 1: Background Data

Subwatershed:	NUUANU	Outfall ID:	TO BE VERIFIED (DI 0202)
Inspection Date:	12/3/14	Time:	11:50 AM
Investigators:	MATT MOORE, JOY ZHANG	Form Completed By:	MATT MOORE
Temp: (F⁰):	87	Rainfall (in.) Last 24 Hrs:	0.51 Last 48 hours: 0.51
Lat:	21° 17' 52.14" Long: 157° 52' 06.05"	GPS Unit:	GOOGLE EARTH GPS LMK #:
Camera:	MATT's iPHONE	Photo #s:	IMG_0834, IMG_0835, IMG_0836, IMG_0837

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☐ Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable when collecting samples)				
Flow Present	Yes ☑ No ☐	*If No, skip to section 5*			
Flow Description (If Present)					

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width	' "	Ft., In.	Tape Measure
	Measured Length	' "	Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			⁰F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Flowing Outfall Indicators: Physical Indicators Present: Yes ☑ No ☐ *(If NO, leave blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1-Faint colors in sample bottle	☐ 2-Clearly visible in sample bottle	☐ 3-Cleary visible in outfall flow
Turbidity	☐	See Severity	☐ 1-Slight cloudiness	☐ 2-Cloudy	☐ 3-Opaque
Floatables-Does not include trash!!	☑	☐ Sewage (toilet paper, etc.) ☑ Petroleum (oil sheen) ☐ Other:	☑ 1-Few/slight; orgin not obvious	☐ 2-Some; indications of orgin (e.g., possible suds or oil sheen)	☐ 3-Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Physical Indicators:Not Related to Flow Present: Yes ☐ No ☑ *(If NO, leave blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other:	
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Section 1: Background Data

Subwatershed:	KAPALAMA	Outfall ID:	SDD 4500
Inspection Date:	12/3/14	Time:	12:16 PM
Investigators:	MATT MOORE, Joy ZHANG	Form Completed By:	MATT MOORE
Temp: (F°):	87	Rainfall (in.) Last 24 Hrs:	0.51 Last 48 hours: 0.51
Lat:	21° 19' 01.6" Long: 157° 52' 35.4"	GPS Unit:	GOOGLE EARTH GPS LMK #:
Camera:	MATT's iPHONE	Photo #s:	

Land use in drainage Area (check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☑ Commercial
- ☐ Open Space
- ☐ Institutional
- ☐ Other Desc.
- Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
☐ Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
☐ Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
☐ In-Stream	(applicable when collecting samples)				
Flow Present	Yes ☑ No ☐ *If No, skip to section 5*				
Flow Description (If Present)					

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
☐ Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	
☐ Flow #2	Flow Depth		in.	Tape Measure
	Flow Width	' "	Ft., In.	Tape Measure
	Measured Length	' "	Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			°F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Flowing Outfall Indicators: Physical Indicators Present: Yes ☑ No ☐ *(If NO, leave blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1-Faint colors in sample bottle	☐ 2-Clearly visible in sample bottle	☐ 3-Cleary visible in outfall flow
Turbidity	☐	See Severity	☐ 1-Slight cloudiness	☐ 2-Cloudy	☐ 3-Opaque
Floatables-Does not include trash!!	☑	☐ Sewage (toilet paper, etc.) ☑ Petroleum (oil sheen) ☐ Other:	☐ 1-Few/slight; orgin not obvious	☑ 2-Some; indications of orgin (e.g., possible suds or oil sheen)	☐ 3-Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Physical Indicators:Not Related to Flow Present: Yes ☐ No ☑ *(If NO, leave blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other:	
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Section 1: Background Data

Subwatershed:	KAPALAMA	Outfall ID:	SDD 4460
Inspection Date:	12/3/14	Time:	12:20 PM
Investigators:	MATT MOORE, JOY ZHANG	Form Completed By:	MATT MOORE
Temp: (F°):	87	Rainfall (in.) Last 24 Hrs:	0.51 Last 48 hours: 0.51
Lat:	21° 18' 59.49" Long: 157° 52' 33.13"	GPS Unit:	GOOGLE EARTH GPS LMK #:
Camera:	MATT'S iPHONE	Photo #s:	IMG_0842, IMG_0843, IMG_0844, IMG_0845

Land use in drainage Area (check all that apply):

- [ ] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [x] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.

Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[ ] Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] In-Stream	(applicable when collecting samples)				
Flow Present	Yes [x] No [ ] *If No, skip to section 5*				
Flow Description (If Present)					

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width	' "	Ft., In.	Tape Measure
	Measured Length	' "	Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			°F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Flowing Outfall Indicators: Physical Indicators Present: Yes ☑ No ☐ *(If NO, leave blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1-Faint colors in sample bottle	☐ 2-Clearly visible in sample bottle	☐ 3-Cleary visible in outfall flow
Turbidity	☐	See Severity	☐ 1-Slight cloudiness	☐ 2-Cloudy	☐ 3-Opaque
Floatables-Does not include trash!!	☑	☐ Sewage (toilet paper, etc.) ☑ Petroleum (oil sheen) ☐ Other:	☑ 1-Few/slight; orgin not obvious	☐ 2-Some; indications of orgin (e.g., possible suds or oil sheen)	☐ 3-Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

Physical Indicators:Not Related to Flow Present: Yes ☐ No ☐ *(If NO, leave blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other:	
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):

Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Section 1: Background Data

Subwatershed:	KAPALAMA	Outfall ID:	SDD 4450
Inspection Date:	12/3/14	Time:	12:25 PM
Investigators:	MATT MOORE, JOY ZHANG	Form Completed By:	MATT MOORE
Temp: (F °):	87	Rainfall (in.) Last 24 Hrs:	0.51 Last 48 hours: 0.51
Lat:	21° 18' 57.25" Long: 157° 52' 36.42"	GPS Unit:	GOOGLE EARTH GPS LMK #:
Camera:	MATT'S iPHONE	Photo #s:	IMG_0846, IMG_0847, IMG_0848, IMG_0849

Land use in drainage Area (check all that apply):

- [ ] Industrial
- [ ] Ultra-Urban Residential
- [ ] Suburban Residential
- [x] Commercial
- [ ] Open Space
- [ ] Institutional
- [ ] Other Desc.

Known Industries

Notes (e.g., origin of outfall if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (in.)	SUBMERGED
[ ] Closed Pipe	If Other, Please Describe	If Other, Please Describe	If Other, Please Describe	Diameter/Dimensions:	In Water With Sediment:
[ ] Open Drainage	If Other, Please Describe	If Other, Please Describe		Depth: Top Width: Bottom Width:	
[ ] In-Stream	(applicable when collecting samples)				
Flow Present	Yes [x] No [ ] *If No, skip to section 5*				
Flow Description (If Present)					

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
[ ] Flow #1	Volume		Liter	Bottle
	Time to Fill		sec.	
[ ] Flow #2	Flow Depth		in.	Tape Measure
	Flow Width	' "	Ft., In.	Tape Measure
	Measured Length	' "	Ft., In.	Tape Measure
	Time of Travel		sec.	Stop Watch
Temperature			° F	Thermometer
pH			pH Units	Test Strip
Ammonia			mg/L	Test Strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls ONLY

Flowing Outfall Indicators: Physical Indicators Present: Yes ☑ No ☐ *(If NO, leave blank and go to section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/Sour ☐ Petroleum/Gas ☐ Sulfide ☐ Other:	☐ 1-Faint	☐ 2-Easily Detected	☐ 3-Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1-Faint colors in sample bottle	☐ 2-Clearly visible in sample bottle	☐ 3-Cleary visible in outfall flow
Turbidity	☐	See Severity	☐ 1-Slight cloudiness	☐ 2-Cloudy	☐ 3-Opaque
Floatables-Does not include trash!!	☑	☐ Sewage (toilet paper, etc.) ☑ Petroleum (oil sheen) ☐ Other:	☑ 1-Few/slight; orgin not obvious	☐ 2-Some; indications of orgin (e.g., possible suds or oil sheen)	☐ 3-Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for both Flowing and Non-flowing Outfalls

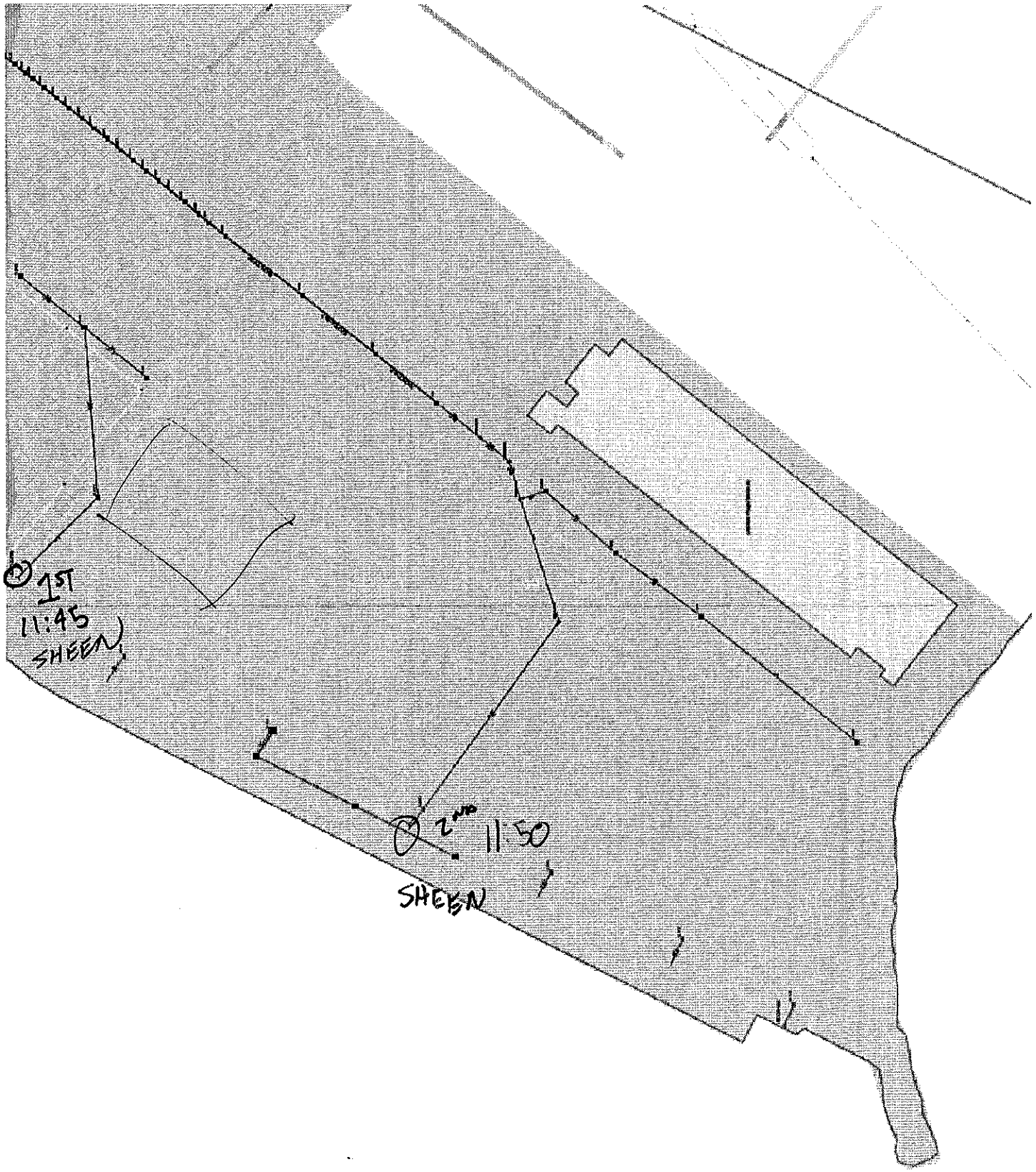
Physical Indicators:Not Related to Flow Present: Yes ☐ No ☐ *(If NO, leave blank and go to section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, cracking or chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor Pool Quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algea ☐ Other:	
Pipe Benthic Growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7. Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs):


1ST
11:45
SHEEN
2ND 11:50
SHEEN

12:16
1ST
SHEEN
2ND
12:20
SHEEN
3RD
12:25
SHEEN
35
34

Attachment 22. Active Construction Projects Inventory and Inspection Summary

Summary Table for Ala Moana WWPS Construction Site BMP Inspection

Inspection Date	Type	Summary
1/9/2014	Regular	Rule of thumb: Sand Island Construction Site - Contaminated soil should be placed on 10-mil sheet and covered. Gound near north entrance on Pier 1 Construction site is covered with sediment (Photo 15). Please clean up ground on a timely basis. Re-gravel Forrest avenue stabilized entrance (Photo 2). MISC items were observed by Construction Site Entrance on Forrest Avenue (Photo 3). Spent biosocks, metal fence, and lumber were observed at Sand Island staging site (Photo 20). Please properly dispose of those items off-site on a timely basis. Maintain good housekeeping condition. Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained.
1/24/2014	Regular	Gound near north entrance on Pier 1 Construction site is covered with sediment (Photo 15). Please clean up ground on a timely basis. Spent biosocks, metal fence, and lumber were observed at Sand Island staging site (Photo 20). Please properly dispose of those items off-site on a timely basis. Maintain good housekeeping condition. Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained. Replace fabric filter prior to construction taken in place.
2/7/2014	Regular	Gound near north entrance on Pier 1 Construction site is covered with sediment (Photo 15). Please clean up ground on a timely basis. Sediment control device along stockpile at Sand Island Staging site needs to be repaird and properly maintained (Photo 22). Lumber were observed at Sand Island staging site (Photo 20). Please properly dispose of those items off-site on a timely basis. Maintain good housekeeping condition. Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained. Replace fabric filter prior to construction taken in place.

Summary Table for Ala Moana WWPS Construction Site BMP Inspection

Inspection Date	Type	Summary
2/21/2014	Regular	Extended tire tracks were observed on Forrest Avenue and an enlarged pothole were observed by Forrest Avenue entrance (Photo 1). Ingress/Egress stabilization area to Forrest Avenue seemd to be settled with fine particles (Photo 2). Under CGP, permittee must minimize the track-out of sediment onto offsite street. Please note that sediment tracking of more than 50' from project Ingress/Egress location, which has not been cleaned by the end of the same work day would be deemed as a violation of the CGP. Please take appropriate action immediately to rectify the situation and fix the pothole. Gound near north entrance on Pier 1 Construction site is covered with sediment (Photo 14). On the outer side of fence, brownish sediment appeared to be leached out to the parking lot adjacent to the project site at least from two locations (Photos 15, 17, and 18). It appeared that the sediment plume didn't reach nearby storm drain inlet, yet. Sediment and small pieces of trash are scattered in the plumed area. A more effective sediment control measure shall be installed immediately in place to prevent sediment from leaching off-site. Scattered litter shall be cleaned up promptly. Maintain good housekeeping. Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis. Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained. Replace fabric filter before construction takes place.
3/6/2014	Regular	Pothole by Forrest Avenue entrance was observered to be patched up at the time of inspection (Photo 1). Ingress/Egress stabilization area to Forrest Avenue since the road is wet. As a reminder under CGP that permittee must minimize the track-out of sediment onto off-site street. Please note that sediment tracking of more than 50' from project Ingress/Egress location, which has not been cleaned by the end of the same work day would be deemed as a violation of the CGP. On the outer side of fence (Pier 1), no sediment appeared to be leached out to the parking lot adjacent to the project site (Photos 15, 17, and 18). Previously deposited sediment and small pieces of trash were scattered in the area. A more effective sediment control measure shall be installed immediately in place to prevent sediment from leaching off-site. Scattered litter shall be cleaned up promptly. Sediment on-site shall be cleaned up regularly (Photo 14). Maintain good housekeeping condition. Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis. Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained. Replace fabric filter before construction takes place.

Summary Table for Ala Moana WWPS Construction Site BMP Inspection

Inspection Date	Type	Summary
3/21/2014	Regular	Pothole by Forrest Avenue entrance was observered to be patched up at the time of inspection (Photo 1). Small portions of ingress/egress stabilization area to Forrest Avenue appeared to be settled with sediment (Photo 2).Tire tracks were observed on Forrest Avenue (Photo 1). As a reminder under CGP that permittee must minimize the track-out of sediment onto off-site street. Please note that sediment tracking of more than 50' from project Ingress/Egress location, which has not been cleaned by the end of the same work day would be deemed as a violation of the CGP. New berms were installed along the north boundary of Pier 1 site (Photo 14), in addition to existing two layers of perimeter biosocks and dust fence. Please ensure to update the SSBMPP correspondingly and then then one copy of updated plan on-site or at a location readily accessible. Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis. Portion of sediment control devices were broken down and needed to be repaired (Photos 22 and 23). Fabric filters inside the drain inlets on Ilaolo Street (adjacent to the construction site on the south; Photo 9) need to be maintained. Replace fabric filter before construction takes place.
4/4/2014	Regular	Pothole by Forrest Avenue entrance was observered to be patched up at the time of inspection (Photo 1). Small portions of ingress/egress stabilization area to Forrest Avenue appeared to be settled with sediment (Photo 2).Minor tire tracks were observed on Forrest Avenue (Photo 1). As a reminder under CGP that permittee must minimize the track-out of sediment onto off-site street. Please note that sediment tracking of more than 50' from project Ingress/Egress location, which has not been cleaned by the end of the same work day would be deemed as a violation of the CGP. One vehicle was parked above one of the storm drain inlets on Ilalo Street (Photo 7). Please note that vehicle/equipment parking over storm drain inlet is strictly prohibited. Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis. Portion of sediment control devices were broken down and needed to be repaired (Photo 21).
6/13/2014	Regular	During the inspection at Ilalo Street construction site, Collucio employee was washing sectional pipes in the area adjacent to two storm drain inlets (Photos 3 and 4). Please note that washing activities (on Harbors property) without proper containment and prior consent from Harbors are strictly prohibited. Wastewater derived from washing activities may contain pollutants which could be carried away by storm water runoff and discharged into the ocean through drain system without any treatment. Please change washing procedure to eliminated illicit discharge. Portion of sediment control devices were broken down and needed to be repaired (Photo 21). Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis (Photo 15). Please regravel the construction entrance fronting Forrest Avenue following the instruction in CCH Storm Water BMP Manual for Construction (Fact Sheet TR-1).

Summary Table for Ala Moana WWPS Construction Site BMP Inspection

Inspection Date	Type	Summary
8/13/2014	Regular	Portion of sediment control devices were broken down and needed to be repaired (Photo 20). Please properly dispose of wastes temporarily staged at Sand Island site on a timely basis (Photo 15). Large oil stains were observed on Ilalo Street Construction Site (Photo 3). Please clean up the stains to the extend that it will not generate a sheen when it rains. Please regravel the construction entrance fronting Forrest Avenue following the instruction in CCH Storm Water BMP Manual for Construction (Fact Sheet TR-1), to minimize sediments tracked off-site.
10/20/2014	Regular	Portion of sediment control devices were broken down and needed to be repaired (Photo 20). Previous patched pavement by entrance to Forrest Avenue became loose after heavy rains over the weekend (Photo 2) and needs to be re-paired. Litter scattered at the northwest corner of the site (Photo 13). Please properly dispose of wastes accumulated at all three sites on a timely basis. Fabric filter in one of the off-site storm drain inlets (on Ilalo Street) is damaged (Photo 8) and needs to be replaced.
11/3/2014	Regular	Portion of sediment control devices surrounding the northwest corner of the stockpile (at Sand Island) were broken down and needed to be repaired (Photo 20). Litter scattered at the northwest corner of the site (Photo 13). Please properly dispose of wastes accumulated at all three sites on a timely basis. Brownish fine soil particles observed near the storm drain inlets on Ilalo Street (Photo 5). Please cleanup ASAP to prevent track-out. Fabric filter in one of the off-site storm drain inlets (on Ilalo Street) is damaged (Photo 8) and needs to be replaced.
11/17/2014	Regular	Portion of sediment control devices surrounding the northwest corner of the stockpile (at Sand Island) were broken down and need to be repaired (Photo 20). Please properly dispose of wastes accumulated at all three sites on a timely basis. Brownish fine soil particles still observed near the storm drain inlets on Ilalo Street (Photo 4). Please cleanup ASAP to prevent track-out. Fabric filter in one of the off-site storm drain inlets (on Ilalo Street) is damaged (Photo 8) and needs to be replaced.

Summary Table for Ala Moana WWPS Construction Site BMP Inspection

Inspection Date	Type	Summary
12/1/2014	Regular	Portion of sediment control devices surrounding the northwest corner of the stockpile (at Sand Island) were broken down and need to be repaired (Photo 20). Please properly dispose of wastes accumulated at all three sites on a timely basis. Based on the recent project status (information obtained from the designated project manager - Mr. William Makanui), it is anticipated that no soil disturbance will take place at Ilalo Street and Pier 1 sites for the next few months. Additionally, exposed soil has been stabilized and the remaining construction activities before completion will have minimal impact to storm water management. Therefore, it is recommended that the BMP inspection at these two sites be suspended until further soil disturbance related operations occur again. The designated project manager shall keep Harbors Division updated timely with project status. Inspection frequency at Sand Island Staging Site remains biweekly from October to March and bimonthly otherwise.
12/15/2014	Regular	Portion of sediment control devices surrounding the northwest corner of the stockpile (at Sand Island) were broken down and need to be repaired (Photos 3, 4, and 8). Please properly dispose of wastes accumulated at all three sites on a timely basis. Inspection at Ilalo Street and Pier 1 construction sites have been suspended. Only Sand Island Staging area has been inspection this time. Good general housekeeping practices shall continue be carried throughtout the project at all construction sites.

14

Summary Table for Atlantis Adventures Pier 27 Construction Site BMP Inspection

Inspection Date	Type	Summary
7/17/2014	Initial	Minor sawdust debris were observed near backhoe staging area. Please sweep up regularly and as needed to prevent debris from blowing into harbor. Please place absorbent materials (e.g., absorbent sheet) underneath any heavy equipment while not in use (Photo 2). One large oil stain was observed on-site (Photo 12). Please cleanup the stain to the extend that it will not generate a sheen when it rains. Keep up general housekeeping and sweep up or vacuum construction debris regularly.
9/17/2014	Regular	Contaminated soil was encountered during recent trenching project for fire hydrant line (Photo 3). Contaminated soil must be segregated from the clean soil and placed on 10-mil plastic sheet & covered. Upon start of any intrusive work, please coordinate with IDPP. They must present onsite during any excavation work. Please update the BMP plan to annotate the designated soil stockpile locations for both contaminated and clean soil (Photo 6). Upon completion, please provide copies to Harbors Division for review. Additionally, information on management of contaminated soil must be shared with all affected personnel and subcontractors. Onsite storm drain inlet shall be inspected regularly for efficiency and the fabric filter shall be replaced when necessary to mitigate potential flooding issue (Photo 5). Keep one set of spill kit onsite in case of spill/leak during fueling operation (5-gallon can used to fuel equipment). One 55-gallon drum was used on-site to collect waste (Photo 7). Mark it "Trash Bin."
10/8/2014	Regular	Contaminated soil was encountered during recent trenching project for fire hydrant line. Contaminated soil must be stored at designated location, segregated from the clean soil and placed on 10-mil plastic sheet & covered. Upon start of any intrusive work, please coordinate with IDPP. Construction plan was updated with coordination requirement. Additionally, information on management of contaminated soil must be shared with all affected personnel and subcontractors. Onsite storm drain inlet shall be inspected regularly for efficiency and the fabric filter shall be replaced to mitigate potential flooding issue (Photo 6). Keep one set of spill kit onsite in case of spill/leak during fueling operation (5-gallon can used to fuel equipment). Keep up the good housekeeping practice(s).

Summary Table for Atlantis Adventures Pier 27 Construction Site BMP Inspection

Inspection Date	Type	Summary
10/23/2014	Regular	On-site storm drain inlet shall be inspected and maintained regularly for draining efficiency and the fabric filter shall be replaced to mitigate potential flooding issue (Photo 6). Refill the spill kit as needed (Photo 4). In case of reportable spill, please make appropriate notification (including HDOH, NRC, local emergency planning committee, and HDOT Harbors Division immediately (i.e., within 24 hours). Continue the good housekeeping practices. Saw dust debris need to be swept up and collected regularly to prevent from blowing into Honolulu Harbor.
11/6/2014	Regular	On-site storm drain inlet shall be inspected and maintained regularly for draining efficiency and the fabric filter shall be replaced to mitigate potential flooding issue (Photo 6). Tire tracks were observed near stockpile staging area (Photo 10). As crew member continues to backfill the trench using the clean soil temporarily staged on the south tip of the pier, regular sweeping (e.g., sweeping as needed and by the end of each construction day) shall be conducted to keep the entrance to stockpile clean and neat.
11/19/2014	Regular	On-site storm drain inlet shall be inspected and maintained regularly for draining efficiency and the fabric filter shall be replaced to mitigate potential flooding issue (Photo 5). No tire tracks were observed near stockpile staging area (Photo 12). As crew member continues to backfill the trench using the clean soil temporarily staged on the south tip of the pier, regular sweeping (e.g., sweeping as needed and by the end of each construction day) shall be conducted to keep the entrance to stockpile clean and neat.
12/4/2014	Regular	The fabric filter inside the drain inlet broke off and needs to be replaced (Photo 5). As crew member continues to backfill the trench using the clean soil temporarily staged on the south tip of the pier, regular sweeping (e.g., sweeping as needed and by the end of each construction day) shall be conducted to keep the entrance to stockpile clean and neat.
12/18/2014	Regular	Black oil stain was observed in the open lot south of the new office building (Photo 7). Upon notification, tenant employee responded right away (Photo 8). Please continue to monitor the site condition for any sign of spill/leak and response timely. As crew member continues to backfill the trench using the clean soil temporarily staged on the south tip of the pier, regular sweeping (e.g., sweeping as needed and by the end of each construction day) shall be conducted to keep the entrance to stockpile clean and neat. Additionally, while not in use, please place absorbent materials underneath the wheel loader parked by the stockpile (photo 10).

8

Summary Table for HC 10368 Pier 34/35 Rehabilitation Construction Site BMP Inspection

Inspection Date	Type	Summary
4/2/2014	Initial	Contaminated soil is being stored in the building. The BMPs are adequate. Sediment basin was not delineated or contained. Contractor stated that they will be adding berms. Dewatering will be placed in retention basin and will not be discharged. The stabilized construction entrance did not have enough rock or rock of sufficient size. The recommendation is 3 to 6 inch diameter rock with a 12 inch depth. The silt fence installation was not complete. There was a section missing near the site entrance. The segments were not joined properly on the west side of the site which was paved (i.e. not overlapped by 6 inches or twisted). The silt fence was not entrenched on the northeast corner of the site. The installation along the canal did not appear stabilized and the end on one side had not been turned uphill. BMP plan had not been updated to include details about using the compost berms for silt fence installation on pavement. Also the location of the contaminated soil stockpile had not been revised.
4/9/2014	Regular	Sediment basin was not delineated or contained. Contractor stated that they will be adding berms. BMP plan had not been updated to include the new location of the contaminated stockpiles and vehicle washout area. Also, it did not include verbiage that the washout would be installed at a later time. Contractor inspection report was not available at the time of the inspection, although it was indicated that it had been completed.
6/9/2014	Regular	Contaminated soil is being stored in the building. The BMPs are adequate. Sediment basin was not delineated or contained. Contractor stated that they will be adding berms. Dewatering will be placed in retention basin and will not be discharged. Contaminated soil has been reused as backfill. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.

Summary Table for HC 10368 Pier 34/35 Rehabilitation Construction Site BMP Inspection

Inspection Date	Type	Summary
6/17/2014	Regular	Silt fence all along diamond head side of building should be adjusted/fixed. Gound is greater than 1/3 high along the fence and soil should be contained better at bottom of fence. Sand bags broken along berms against silt fence located near the Makai side of project limits. Replace one more berm. Clean/place new sand bags along storm drains located at the project entrance and at the Ewa/Makai side of project limits. When Concrete Washout occurs, make sure control device is in place. Make sure green bin is covered daily at end of construction activities. Make sure stock piles have berms and are covered if present over one day. Updated BMP report emailed out morning of 6/17/14, need Watts to point out changes and will have DOT Harbors initial changes at weekly meeting on 6/20/14. At weekly meeting being held on 6/20/14, training logs, NPDES permit and weekly reports will be reviewed hard copy, email copies have been received. Watts needs to complete a monthly compliance clean water report per DOH. Watts can create the format of the report, summarize weekly reports, and any deficiencies noted and corrective actions.
8/7/2014	Regular	Soils are being reused as backfill. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
8/11/2014	Regular	Soils are being reused as backfill. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
10/6/2014	Regular	Soils are being stockpiled and reused as backfill. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
10/20/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
11/3/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.

Summary Table for HC 10368 Pier 34/35 Rehabilitation Construction Site BMP Inspection

Inspection Date	Type	Summary
11/17/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
12/1/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
12/15/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.
12/29/2014	Regular	Soils are being stockpiled and hauled out to PVT. Berm constructed around water holding pond. Dewatering will be placed in retention basin and will not be discharged.

13

Summary Table for HC 10370 KMR Building Demolition Construction Site BMP Inspection

Inspection Date	Type	Summary
5/27/2014	Initial	Perimeter berms: Add berms to corner of bldg 917 (Photo 8). Turn the ends of the berms to form a "J" at the fence along the central northern area (near AuikiSt and end of Building 906) (Photos 5 and 6) and at the east end of Building 906 (Photo 7). Further, ensure there is a 6-inch overlap between ends of berms. One area near the entrance was not overlapped, but corrected on-site (Photo 10). Update documents - SWPPP to include that construction entrance will only be used as necessary and indicate areas where berms were not placed. Update schedule to indicate that Phase A, B, C, D, and E will all be done at separate times. Ensure that all submittals are provided to the Department of Health as listed in the NPDES permit.
8/29/2014	Regular	Biosock perimeter control was not overlapped to manufacture's recommendations (at least 6-12 inches) in several areas (Photo 1 and 2). Areas of most concern were just Ewa of Building 910, Eastern corner of Building 906, and Ewa of Building 931. Contractor has since corrected these areas of concern (Photos 10 and 11). Several storm drain inlets on the Ewa side of Building 910 showed sediment accumulation (Photo 3 and 4). Contractor has since corrected these areas of concern (Photos 12 and 13). Oil stains were noticed in Phase A of the construction site (Photo 5 and 6). Contractor has since corrected these areas of concern (Photos 14 and 15).
10/2/2014	Regular	Storm drain inlet protection was clean and functioning properly as evident from previous night's rain event. Contractor showed substantial improvement from previous inspection. As a recommendation, equipment should not be stored in ponding water (Photo 8). Equipment shown in Photo 8 was clean and not rusted.
10/19/2014	Irregular	Biosock at Bldg 919/921 west displaced loss of continuity and repositioned on Saturday Biosock at Island Movers Area (makai) dislodged and repositioned later on. Biosock southwest of Bldg 905 lost in Tropical Storm Iselle (maybe submerged or drafted away) and replaced on following Monday (10/20/2014). Sediment/silt cleaned and maintained.

Summary Table for HC 10370 KMR Building Demolition Construction Site BMP Inspection

Inspection Date	Type	Summary
10/16/2014	Regular	Dust control water / stormwater accumulated on-site. Drainage through Biosock or other media at drain grates. General conditions of Biosocks and microfiber media good to very good.
11/3/2014	Regular	No comments.
11/17/2014	Regular	Dirty microfiber cloth and Biosocks damaged. All damaged cloth and socks were replaced on November 19 and 20, 2014.
12/4/2014	Regular	Drity microfiber cloth and one missing Biosocks observed on-site. Replaced those BMPs on December 4, 2014.
12/15/2014	Regular	No comments.

9

Summary Table for HC 10515 Pier 31 Shed Demolition Construction Site BMP Inspection

Inspection Date	Type	Summary
4/15/2014	Initial	No dewatering or hydrotesting anticipated. Storm drain 3958, located near entrance, did not have filter fabric. The following individuals were trained in conducting site inspections: Lauren Young, Andy Chan, Richard Yoneda, Neil Asato, Rodney Yamame
7/1/2014	Regular	One perimeter berm had broken open and there was not a 6-inch overlap in several locations. The filter fabric in one storm drain inlet was not properly positioned. A newly installed trench drain at the site did not have BMPs in place to prevent the discharge of potential pollutants. The contractor was not available during the inspection; therefore, it could not be determined if the appropriate paperwork was on-site (i.e. NPDES permit, SWPPP, and inspection reports). Follow-up revealed that documents were available on-site (7/3/14). The following individuals were trained in conducting site inspections: Lauren Young, Andy Chan, Joe Cheng, Richard Yoneda, Neil Asato, Rodney Yamame
9/17/2014	Regular	This monthly BMP Inspection was conducted during the Partial Acceptance Inspection. All construction activities that have the potential to disturb sediments have finished. BMP inspections at this site are temporarily paused and will resume should further soil disturbance take place (i.e., Ph. II). Vehicle tracking was observed on asphalt areas of the site (Photo 1). Tracking did not originate from unstabilized soils as all areas have been paved, therefore tracking is not classifed as a deficiency. Contractor mentioned they will sweep fine sediments that have accumulated. Biosock perimeter control bordering Honolulu Harbor was not at required overlap according to manufacturers specifications (Photo 2). Contractor is required to continue to maintain perimeter controls until notified by Harbors. Petroleum stains on asphalt in the vehicle storage area were observed (Photo 3 and 4). Please place drip pans or other absorbent materials underneath vehicle/equipment to catch any spill/leak. Clean up oil stains on a regular basis and to the extend that it will not generate a sheen. Various metal materials are stored in an area without cover that is exposed to storm water (Photo 5). It is recommended these materials be covered or storing them under cover.

3

Attachment 23. Construction Plan Review Summary

HC Number	Date	NPDES Permit No	Project Location	Total Project Area (acres)	Project Title	Project Description	Receiving Water Body(s)	MS4 Structures Adjacent
HC_10551	3/3/2014	HI R10C108	Piers 51 B/C to 53	Greater than one acre	FY14 One-Year Maintenance Contract for Pavement Repairs at Matson Container Yard	The work to be done on this project consists of repairing the damaged pavement at MATSON CONTAINER YARD. The work shall be accomplished in multiple repair work phases throughout the year.	Honolulu Harbor	Grated trench drains and inlets varying in size from 3' x 3' to 4' x 5' outfalling to Honolulu Harbor
HC_10552	4/14/2014	HI R10C200	Pier 51A	41	FY 14 One-Year Pavement Repairs at Horizon lines Container Yard, Honolulu Harbor	The project will provide cold planing, replacing the base course, preparing the subbase, applying a new bituminous tack coat, placing new modified Mix III and Mix V Hot Bituminous Asphalt Pavement, and placing new pavement markings in a portion of the Horizon Lines container yard at Honolulu Harbor on Island of Oahu.	Honolulu Harbor	Grated trench drains and inlets varying in size from 3'X3' to 4'X5' outfalling to Honolulu Harbor
HC_10564	9/5/2014		Pier 52/53	1.65	FY 15 Pavement Repairs at the stevedore parking at Matson Terminal.	The scope of work consists of cold-planting, overlay of existing asphalt pavement, providing and installing concrete wheel stops, and pavement markings, including, but not limited to: removal and disposal of existing asphalt pavement by cold planing; cleaning and crack sealing existing asphalt pavement, placing HMA pavement State Mix IV; installing pre-cast concrete wheel stops; and placing pavement markings.	Honolulu Harbor	Grated trench drains and inlets varying in size from 3'X3' to 4'X5' outfalling to Honolulu Harbor
HC_10565	8/19/2014		Sand Island Container Yard		FY15 One-Year Maintenance Contract for Pavement Repairs at Matson Container Yard, Honolulu Harbor		Honolulu Harbor	Grated trench drains and inlets varying in size from 3'X3' to 4'X5' outfalling to Honolulu Harbor
HC_10566	6/25/2014		Armstrong	N/A	Pavement Repairs at Fort Armstrong, Honolulu Harbor	Repair damaged asphalt concrete pavement at Fort Armstrong, Honolulu Harbor	Honolulu Harbor	Harbors small MS4 on Piers 1 and 2
HC_10567	10/27/2014		Pier Shed		Replace Roll-Up Door at Pier Shed		Kalaeloa Barbers Point Harbor	Trench drain
HC_10570	9/9/2014		Piers 51-51		Light Repairs at Piers 51-52, Honolulu Harbor	The scope of the work consists of replacing existing High Intensity Discharge lamps in floodlight fixtures and troubleshooting and repairing inoperable portions of the existing lighting system, if necessary.	Honolulu Harbor	Grated trench drains and inlets varying in size from 3'X3' to 4'X5' outfalling to Honolulu Harbor

HC Number	Date	NPDES Permit No	Project Location	Total Project Area (acres)	Project Title	Project Description	Receiving Water Body(s)	MS4 Structures Adjacent
HC_10573	9/5/2014		Pier 31		Trench Drain Repairs at Pier 31	The scope of work consists of repairing trench drains on the mauka side of the Pier 31 Shed.		
HMP_20905	2/28/2014	HI R10E214	Pier 34/35	4.8	Building Improvements at Pier 35	Building work includes abatement and partial demolition of existing interior areas, roofing and siding, and installation of new interior areas, roofing, and siding.		

9

Tenant Name	Date	NPDES Permit No	Project Location	Total Project Area (acres)	Project Title	Project Description	Project Schedule	Receiving Water Body(s)	MS4 Structures Adjacent
HPU	5/22/2014		Piers 8 and 9		HPU Student Apartment Interior Structure Demolition on Piers 8 and 9	The second phase of the Aloha Tower Marketplace – HPU Student Apartment project will consist of demolition of the 1st floor,		Honolulu Harbor	Individual storm sewer system on-site.

Attachment 24. Permanent BMP Plan Review and Inventory

Project Identifier	Ownership	Location	Acreage	Submittal Date	Project Title	Project Description	Control Measure Type	Control Measure Description	Date of Acceptance	Date of Maintenance Agreement	Schedule and Procedures for Operation and Maintenance
HC_10354	Harbors	Pier 29	11.95 acres	12/30/2014	Pier 29	Construction of Pier 29 Container Yard.	Storm Water Treatment Control and Requiring Ongoing Maintenance.	Direct runoff infiltrate through the built-in fabric filter.	6/29/2012		As needed.
HC_10498	Harbors	KMR	18.55 acres	5/6/2014	The New Kapalama Container Terminal Wharf and Dredging	As a part of the "New Day" initiative to modernize and redevelop the State of Hawaii commercial harbors, the Hawaii DOT Harbors Division (DOT-H) has commenced redevelopment of the Kapalama Military Reservation into a new, state of the art container shipping terminal. The project will redevelop approximately 1,100 linear feet at the Pier 41 slip and approximately 1,900 linear feet of new wharf and berth at Pier 42-43.	Manufactured treatment device	The first flush runoff generated from the site will be treated by Hydrodynamic separators before being discharged into the Honolulu Harbor			
HC_10502	Harbors	KMR	69.6 acres	12/20/2013	The New Kapalama Container Terminal Yard Design	Design of a Container Yard.	LID, Source Control, and Treatment Control	Direct Runoff to Landscaped Areas; Automatic irrigation systems, Landscaped area, Storm drain inlets, Parking areas; Vegetated swale, Manufactured treatment device.			

Attachment 25. Baseyard Waste Disposal Summaries

HAR-OCG Waste Disposal Totals

Waste Type	Amount	Units
Refuse 1st Half 2014	325.24	tons
Refuse 2nd Half 2014	367.88	tons
Pier 1 Beautification Refuse	600	tons
Refuse Subtotal	**1293.12**	**tons**
Green Waste	36.09	tons
Sweeper Waste	134.81	tons
Drain Waste	20.45	tons
Waste Total	**1484.47**	**tons**
Used Batteries	95	items
Computers	7	items
Monitors	3	items
Printers	2	items
TVs	48	items

DATE	DAY OF WEEK	AMOUNT COLLECTED (Tons)	REMARKS
01/02/14	THURSDAY	2.64	
01/03/14	FRIDAY	2.85	
01/06/14	MONDAY	4.77	
01/07/14	TUESDAY	2.03	
01/08/14	WEDNESDAY	0.79	
01/09/14	THURSDAY	2.29	
01/10/14	FRIDAY	0.99	
01/13/14	MONDAY	3.70	
01/14/14	TUESDAY	2.21	
01/15/14	WEDNESDAY	0.87	
01/16/14	THURSDAY	0.96	
01/17/14	FRIDAY	1.92	
01/19/14	MONDAY	1.96	
01/21/14	TUESDAY	3.45	
01/23/14	THURSDAY	3.40	
01/24/14	FRIDAY	1.33	
01/27/14	MONDAY	5.12	
01/28/14	TUESDAY	1.79	
01/29/14	WEDNESDAY	1.42	
01/30/14	THURSDAY	1.17	
01/31/14	FRIDAY	1.69	
02/03/14	MONDAY	4.41	
02/04/14	TUESDAY	1.46	
02/05/14	WEDNESDAY	2.00	
02/06/14	THURSDAY	1.45	
02/07/14	FRIDAY	2.30	
02/10/14	MONDAY	3.92	
02/11/14	TUESDAY	1.73	
02/12/14	WEDNESDAY	2.06	
02/13/14	THURSDAY	2.25	
02/14/14	FRIDAY	1.70	
02/16/14	SUNDAY	2.29	HOLIDAY P/U
02/18/14	TUESDAY	3.30	
02/19/14	WEDNESDAY	1.47	
02/20/14	THURSDAY	1.53	
02/21/14	FRIDAY	1.13	
02/24/14	MONDAY	4.10	
02/25/14	TUESDAY	1.24	
02/26/14	WEDNESDAY	1.77	
02/27/14	THURSDAY	2.16	
02/28/14	FRIDAY	1.44	
03/03/14	MONDAY	4.93	
03/04/14	TUESDAY	1.23	
03/05/14	WEDNESDAY	2.92	
03/06/14	THURSDAY	1.88	
03/07/14	FRIDAY	1.03	

DATE	DAY OF WEEK	AMOUNT COLLECTED (Tons)	REMARKS
03/10/14	MONDAY	4.33	
03/11/14	TUESDAY	2.43	
03/12/14	WEDNESDAY	0.51	
03/13/14	THURSDAY	1.40	
03/14/14	FRIDAY	1.92	
03/17/14	MONDAY	3.70	
03/18/14	TUESDAY	1.34	
03/19/14	WEDNESDAY	1.23	
03/20/14	THURSDAY	1.09	
03/21/14	FRIDAY	2.35	
03/24/14	MONDAY	4.02	
03/25/14	TUESDAY	1.16	
03/27/14	THURSDAY	3.65	
03/28/14	FRIDAY	1.69	
03/31/14	MONDAY	4.72	
04/01/14	TUESDAY	0.69	
04/02/14	WEDNESDAY	1.12	
04/03/14	THURSDAY	1.34	
04/04/14	FRIDAY	1.45	
04/07/14	MONDAY	3.26	
04/08/14	TUESDAY	1.28	
04/09/14	WEDNESDAY	0.93	
04/10/14	THURSDAY	0.99	
04/11/14	FRIDAY	1.60	
04/14/14	MONDAY	5.75	
04/15/14	TUESDAY	2.16	
04/16/14	WEDNESDAY	1.22	
04/17/14	THURSDAY	1.75	
04/19/14	SATURDAY	2.22	HOLIDAY P/U
04/21/14	MONDAY	1.97	
04/22/14	TUESDAY	1.48	
04/24/14	THURSDAY	3.46	
04/25/14	FRIDAY	2.10	
04/28/14	MONDAY	1.86	
04/29/14	TUESDAY	2.22	
04/30/14	WEDNESDAY	1.73	
05/01/14	THURSDAY	1.61	
05/02/14	FRIDAY	1.29	
05/05/14	MONDAY	7.50	
05/06/14	TUESDAY	2.75	
05/07/14	WEDNESDAY	2.30	
05/08/14	THURSDAY	2.87	
05/09/14	FRIDAY	2.50	
05/12/14	MONDAY	5.20	
05/13/14	TUESDAY	2.74	
05/14/14	WEDNESDAY	1.90	

DATE	DAY OF WEEK	AMOUNT COLLECTED (Tons)	REMARKS
05/15/14	THURSDAY	2.63	
05/16/14	FRIDAY	2.11	
05/19/14	MONDAY	4.24	
05/20/14	TUESDAY	2.58	
05/21/14	WEDNESDAY	2.21	
05/22/14	THURSDAY	3.10	
05/23/14	FRIDAY	2.66	
05/25/14	SUNDAY	3.10	HOLIDAY P/U
05/27/14	TUESDAY	4.85	
05/28/14	WEDNESDAY	2.31	
05/29/14	THURSDAY	2.56	
05/30/14	FRIDAY	3.44	
06/02/14	MONDAY	7.73	
06/03/14	TUESDAY	3.23	
06/04/14	WEDNESDAY	2.65	
06/05/14	THURSDAY	2.71	
06/06/14	FRIDAY	3.44	
06/09/14	MONDAY	5.42	
06/10/14	TUESDAY	6.19	
06/12/14	THURSDAY	6.99	
06/13/14	FRIDAY	3.77	
06/16/14	MONDAY	4.16	
06/17/14	TUESDAY	2.68	
06/18/14	WEDNESDAY	2.10	
06/19/14	THURSDAY	2.51	
06/20/14	FRIDAY	3.30	
06/23/14	MONDAY	5.98	
06/24/14	TUESDAY	3.04	
06/25/14	WEDNESDAY	2.92	
06/26/14	THURSDAY	2.45	
06/27/14	FRIDAY	3.43	
06/30/14	MONDAY	4.92	
	DAILY AVERAGE	2.62	
	SUM	325.24	
	MONDAY AVERAGE	4.35	
	TUESDAY AVERAGE	2.37	
	WEDNESDAY AVERAGE	1.73	
	THURSDAY AVERAGE	2.34	
	FRIDAY AVERAGE	2.14	
	TOTAL AVERAGE	2.59	
	SPECIAL PROJECTS		
3/3/2014	Auiki St	2.53	*3/2/2014 DATE CLEANED*
2/23/2014	Auiki St	1.56	*4/24/2014 DATE CLEANED*
5/25/2014	Auiki St		p/u 2 x 2cu yd rubbish Cans

DATE	DAY OF WEEK	AMOUNT COLLECTED (tons)	REMARKS	
07/01/14	TUESDAY	3.20		
07/02/14	WEDNESDAY	2.35		
07/03/14	THURSDAY	2.36		
07/05/14	SATURDAY	1.19	HOLIDAY P/U	
07/07/14	MONDAY	3.23		
07/08/14	TUESDAY	2.52		
07/09/14	WEDNESDAY	3.76		
07/10/14	THURSDAY	3.15		
07/11/14	FRIDAY	2.93		
07/14/14	MONDAY	5.55		
07/15/14	TUESDAY	3.24		
07/16/14	WEDNESDAY	3.31		
07/17/14	THURSDAY	4.15		
07/18/15	FRIDAY	2.31		
07/21/14	MONDAY	4.54		
07/22/14	TUESDAY	2.80		
07/23/14	WEDNESDAY	1.60		
07/24/14	THURSDAY	1.97		
07/25/14	FRIDAY	2.32		
07/28/14	MONDAY	3.91		
07/29/14	TUESDAY	2.29		
07/30/14	WEDNESDAY	1.63		
07/31/14	THURSDAY	1.78		
08/01/14	FRIDAY	2.82		
08/04/14	MONDAY	3.95		
08/05/14	TUESDAY	1.56		
08/06/14	WEDNESDAY	2.27		
08/09/14	SATURDAY	4.49		
08/11/14	THURSDAY	2.97	Hurricane Relief	
08/11/14	MONDAY	3.72		
08/12/14	TUESDAY	2.18		
08/13/14	WEDNESDAY	1.83		
08/14/14	THURSDAY	2.58		
08/16/14	SATURDAY	4.77	HOLIDAY P/U	
08/18/14	MONDAY	2.52		
08/19/14	TUESDAY	2.58		
08/20/14	WEDNESDAY	1.90		
08/21/14	THURSDAY	2.96		
08/22/14	FRIDAY	1.98		
08/25/14	MONDAY	5.41	Includes Bulk	Mix Rubbish Pick Up
08/26/14	TUESDAY	2.87		
08/27/14	WEDNESDAY	1.91		
08/28/14	THURSDAY	2.13		
08/29/14	FRIDAY	2.28		
08/31/14	SUNDAY	2.44	HOLIDAY P/U	
09/02/14	TUESDAY	2.31		

DATE	DAY OF WEEK	AMOUNT COLLECTED (tons)	REMARKS	
09/03/14	WEDNESDAY	2.26		
09/04/14	THURSDAY	1.72		
09/05/14	FRIDAY	1.79		
09/08/14	MONDAY	5.45		
09/09/14	TUESDAY	1.87		
09/10/14	WEDNESDAY	2.10		
09/11/14	THURSDAY	2.82		
09/12/14	FRIDAY	2.08		
09/15/14	MONDAY	3.64		
09/16/14	TUESDAY	1.90		
09/17/14	WEDNESDAY	2.09		
09/18/14	THURSDAY	1.84		
09/19/14	FRIDAY	1.98		
09/22/14	MONDAY	3.51		
09/23/14	TUESDAY	1.67		
09/24/14	WEDNESDAY	2.32		
09/25/14	THURSDAY	2.17		
09/26/14	FRIDAY	3.14		
09/29/14	MONDAY	5.03		
09/30/14	TUESDAY	4.32		
10/01/14	WEDNESDAY	3.36		
10/02/14	THURSDAY	2.76		
10/03/14	FRIDAY	2.32		
10/06/14	MONDAY	5.71		
10/07/14	TUESDAY	2.29		
10/08/14	WEDNESDAY	2.33		
10/09/14	THURSDAY	2.70		
10/10/14	FRIDAY	2.58		
10/13/14	MONDAY	3.83		
10/14/14	TUESDAY	2.11		
10/15/14	WEDNESDAY	2.07		
10/16/14	THURSDAY	1.87		
10/17/14	FRIDAY	3.28		
10/20/14	MONDAY	5.53		
10/21/14	TUESDAY	2.67		
10/22/14	WEDNESDAY	1.77		
10/23/14	THURSDAY	3.48		
10/24/14	FRIDAY	2.76		
10/27/14	MONDAY	4.06		
10/28/14	TUESDAY	2.84		
10/29/14	WEDNESDAY	0.00	TRUCK IN FOR	SERVICING NO RUBBISH
10/30/14	THURSDAY	4.83		
10/31/14	FRIDAY	2.55		
11/03/14	MONDAY	4.03		
11/04/14	TUESDAY	0.00	HOLIDAY	ELECTION DAY
11/05/14	WEDNESDAY	3.86		

DATE	DAY OF WEEK	AMOUNT COLLECTED (tons)	REMARKS	
11/06/14	THURSDAY	0.00	NO P/U TNG DAY	
11/07/14	FRIDAY	3.98		
11/10/14	MONDAY	5.09		
11/11/14	TUESDAY	0.00	HOLIDAY	VETERAN'S DAY
11/12/14	WEDNESDAY	3.63		
11/13/14	THURSDAY	3.14		
11/14/14	FRIDAY	2.03		
11/17/14	MONDAY	4.19		
11/18/14	TUESDAY	2.32		
11/19/14	WEDNESDAY	2.33		
11/20/14	THURSDAY	2.79		
11/21/14	FRIDAY	3.65		
11/24/14	MONDAY	4.49		
11/25/14	TUESDAY	2.48		
11/26/14	WEDNESDAY	2.16		
11/27/14	THURSDAY	0.00	HOLIDAY	THANKSGIVING
11/28/14	FRIDAY	3.25		
12/01/14	MONDAY	5.32		
12/02/14	TUESDAY	2.84		
12/03/14	WEDNESDAY	2.00		
12/03/14	THURSDAY	2.00		
12/05/15	FRIDAY	2.96		
12/08/14	MONDAY	4.62		
12/10/14	WEDNESDAY	3.09		
12/11/14	THURSDAY	2.56		
12/12/14	FRIDAY	2.20		
12/15/14	MONDAY	3.82		
12/16/14	TUESDAY	0.00		NO PICK UP PTO ISSUES
12/17/14	WEDNESDAY	3.52		
12/18/14	THURSDAY	1.67		
12/19/14	FRIDAY	2.55		
12/22/14	MONDAY	6.54		
12/23/14	TUESDAY	2.76		
12/24/14	WEDNESDAY	2.93		
12/25/14	THURSDAY	0.00	HOLIDAY	CHRISTMAS
12/26/14	FRIDAY	3.70		
12/29/14	MONDAY	4.98		
12/30/14	TUESDAY	3.80		
12/31/14	WEDNESDAY	3.17		
	DAILY AVERAGE	2.84		
	SUM	372.37		
	MONDAY AVERAGE	4.39		
	TUESDAY AVERAGE	2.36		
	WEDNESDAY AVERAGE	2.53		
	THURSDAY AVERAGE	2.36		

DATE	DAY OF WEEK	AMOUNT COLLECTED (tons)	REMARKS	
	FRIDAY AVERAGE	2.67		
	TOTAL AVERAGE	2.86		

Sweeper Waste Collection

DATE	AMOUNT COLLECTED	REMARKS
01/08/14	14.61	2 X DELIVERIES
01/13/14	6.49	
01/17/14	7.35	
01/21/14	9.71	2 X DELIVERIES
01/22/14	5.00	
01/28/14	6.66	
02/04/14	2.92	
02/21/14	11.08	
03/17/14	4.89	
03/18/14	2.78	
03/25/14	2.59	
04/07/14	3.88	
05/07/14	9.74	2 X DELIVERIES
05/20/14	4.56	
05/23/14	5.89	
06/09/14	4.73	
07/23/14	2.94	
07/31/14	3.97	
08/21/14	4.57	
08/22/15	7.11	
09/03/14	4.75	
09/11/14	2.01	
10/29/14	0.74	
11/12/14	0.68	
11/18/14	2.39	
11/20/14	1.64	
12/02/14	1.13	
DAILY AVERAGE	4.99	
SUM	134.81	

DATE	AMOUNT COLLECTED	REMARKS
01/30/14	1.08	
02/11/14	1.59	
02/18/14	1.41	
02/20/14	2.39	
02/27/14	2.99	
03/03/14	2.53	
03/05/14	3.26	
03/27/14	2.77	
04/09/14	1.14	
04/14/14	1.35	
04/17/14	0.72	
04/22/14	1.31	
04/24/14	0.62	
04/28/14	0.60	
05/12/14	1.07	
05/19/14	1.22	
05/30/14	1.49	
06/09/14	1.98	
06/23/14	0.93	
07/01/14	0.77	
07/03/14	4.66	
07/08/14	1.18	
07/11/14	0.42	
07/18/14	3.09	
07/21/14	1.47	
07/29/14	1.53	
08/04/14	1.02	
08/06/14	0.84	
08/13/14	0.65	
08/22/14	0.85	
08/29/14	0.49	
09/02/14	0.86	
09/04/14	0.54	
09/09/14	0.56	
09/12/14	0.31	
09/15/14	0.75	
09/23/14	0.82	
09/26/14	0.54	
09/29/14	1.02	
10/08/14	0.39	
10/13/14	0.79	
10/21/14	0.68	
10/31/14	3.78	
11/03/14	1.52	
11/06/14	1.90	
11/07/14	3.98	

DATE	AMOUNT COLLECTED	REMARKS
11/10/14	2.17	
11/25/14	3.46	
11/26/14	1.35	
12/01/14	2.08	
12/03/14	0.76	
12/04/14	2.67	
12/05/14	1.28	
12/08/14	1.35	
12/12/14	1.65	
12/16/14	0.79	
12/19/14	2.07	
12/24/14	1.74	

DAILY AVERAGE	1.50
SUM	87.23

DATE	AMOUNT COLLECTED	REMARKS
03/10/14	3.88	
05/21/14	1.32	
06/18/14	1.62	
06/24/14	0.51	
06/25/14	0.55	
06/27/14	0.57	
07/10/14	0.57	Kalaeloa
07/25/14	1.09	
08/07/14	0.49	
08/11/14	5.86	YB Hurrican Relief
08/12/14	3.56	YB Hurrican Relief
08/14/14	2.58	YB Hurrican Relief
08/28/14	2.38	YB Hurrican Relief
09/24/14	1.29	Auiki/P40
10/23/14	1.10	
10/24/14	1.68	Tree Timming
10/29/14	2.59	
11/26/14	1.68	
12/02/14	2.08	
12/05/14	0.69	

DAILY AVERAGE	1.80
SUM	36.09

DATE CLEANED	DRAIN ID	AMOUNT COLLECTED (CUBIC FT)	REMARKS
06/20/14	SDI 0656, 0657, 0722, 0724, 0728	1.00	Witches hat not replaced.
06/20/14	SDI 3227, 3229, 3230, 3232, 3235	Minimal	3 Rubbish Bags.
07/02/14	SDI 0683	Minimal	1/2 a Rubbish Bag.
07/11/14	SD B-3	Minimal	Rubbish amounts less than a dust pan.
07/22/14	SDT (Pier 52)	48.00	Dirt / Rubbish. Trench Drain 7 Parallel of Matson Fenceline Next to Employee Parking Lot.
07/30/14	SDI (Pier 52)	3.00	Pier 52 Trench Drain #4, Row A-11, Stall 28. Grate slightly bent, but still functional.
07/30/14	SDT (Pier 52)	4.00	Dirt / Rubbish. Trench Drain #4, Row A-11, Stall #19, 20, & 21. Grates bent but functional.
08/05/14	SDI 3/33 (Pier 51)	Minimal	Dirt / Rubbish. Placed witches hat and drain sock in drain.
08/05/14	SDI 2693	Minimal	Witches hat placed. Grate is broken.
08/05/14	SDI 2695	Minimal	Witches hat placed. Grate is broken.
08/27/14	SDT (Pier 52)	5.00	Trench Drain #10, Row E015, Slots 1, 2, & 3.
10/01/14	SDI (Pier 19)	5.00	Rubbish / dirt/ grass cuttings
10/09/14	SDI 4157	0.00	Witches hat installed.
10/09/14	SDI 4183	0.00	Witches hat installed.
11/05/14	SDI 0044 & SDI 0045	Minimal	Dirt / Rubbish.
11/05/14	SDI 4360	2.00	Rubbish / dirt.
11/19/14	SDO 9165	0.00	Drain socks placed at the front and rear of the outfall
11/20/14	SDO 9181 (KIPA)	240.00	Mangroves / trees/ mud.
11/21/14	SDI 0662	3.00	Dirt.
11/25/14	SDO 9190, 9191 (KIPA)	6.00	Green waste.
11/28/14	SDI 3962	0.00	
11/28/14	SDI 3964	0.00	
11/28/14	SDI 4134	0.00	
12/02/14	SDI 5521/5522	0.00	Grass cuttings collected from the yard. Two drain guards placed around drains.
12/04/14	SDO 9185	474.00	Mud / Debris. Converted from 11.85 tons (freight).
12/09/14	SDI 2792	0.00	Piping, cement, and asphalt is broken and cracked. Tenant states that area floods.
12/09/14	SDI 2802	0.00	Witches hat placed. Tenant states that area floods. Grate is rusted.
12/09/14	SDI 2808	Minimal	1/2 a Rubbish Bag. Witches hat replaced. Sink hole noted between drain and bldg.
12/11/14	SDI 3904	Minimal	Old grass cuttings removed.
12/11/14	SDI 3924	Minimal	Old grass cuttings removed.
12/11/14	SDI 3904	2.00	Dirt / Rubbish
12/11/14	SDI 3968	2.00	Grate Broken
12/11/14	SDI 3968	0.00	Witches hat placed in drain.
12/11/14	SDI 4130	1.00	Dirt / Rubbish
12/11/14	SDI 4132	0.00	Grate Broken

DATE CLEANED	DRAIN ID	AMOUNT COLLECTED (CUBIC FT)	REMARKS
12/11/14	SDI 3904	Minimal	Mostly paper rubbish captured by witches hat.
12/11/14	SDI 3904	0.00	Grate Broken
12/12/14	SDI 4136	0.00	
12/16/14	SDI 3970	1.20	Dirt removed and witches hat added.
12/16/14	SDI 3972	4.80	Drain structure needs repairs. Witches hat added.
12/17/14	SDI 2484	0.00	Unable to lift cement blocks acting as grates. No dirt or rubbish noted after inspection.
12/23/14	SDI 3552	0.67	Witches hat placed in drain.
12/23/14	SDI 3554	0.00	Mislabeled as SDI 3552.
12/23/14	SDI 3592	5.35	Dirt / Mud / Debris
	Subtotal	808.02	
	Addition for "Minimal"	10.00	
	Total	818.02	
	Conversion to Tons	20.45	

Attachment 26. HAR-OCG Storm Drain Maintenance Field Records

STORM DRAIN INSPECTION

Inspected by: Marcelo Garbonia Date: 5/17/2014

Pier Location: PIER 2, FREE TRADE ZONE (FTZ)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 0656, 0657, 0722, 0724 & 0728

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no

Illicit Connection: yes no

Before Picture taken on: Unknown

After Picture taken on: 6/21/2014

Cleaning Information

Cleaning Crew by: 1 X Equipment Operator and six Laborers (OCG/Labor Gang)

Date Cleaned: 6/20/2014

Cleaning Method: vactor manual

Before Picture taken on: Unknown

After Picture taken on: 6/21/2014 (Camera malfunction forced the pictures to be taken the next day after cleaning.)

Cleaned Volume (cubic feet): 1 cubic foot W x L x D =

NOTE: "Witches Hats" were recycled. There we no witches hats the size required in the inventory. Will replace the witches hats after July 1 when the money becomes available.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: PAUL SHIMIZU, OC7 Date: 5/18/2014

Pier Location:

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: Strom Drain B-3

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKNOWN

After Picture taken on: 7/11/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG, PARK GANG

Date Cleaned: 7/11/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKOWN

After Picture taken on: 7/11/2014

Cleaned Volume (cubic feet): W x L x D = MINIMAL RUBBISH 9LESS THAN A DUST PAN.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE Date: 5/202014
7/15/2014

Pier Location: Pier 52

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: TRENCH DRAIN 7 (PARALLEL OF MATSON FENCE LINE NEXT TO EMPLOYEE PARKING LOT)

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKOWN & 7/15/2014

After Picture taken on: 7/22/2015

Cleaning Information

Cleaning Crew by: HARBORS/OCG, LABOR GANG, EQUIPMENT & SWEEPER OPERATOR AND SUPER I

Date Cleaned: 7/22/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKOWN & 7/15/2014

After Picture taken on: 7/22/2014

Cleaned Volume (cubic feet): 12 WHEEL BARROWS (48 cu bic feet)OF DIRT & RUBBISH

Note: This report covers two area surveys – 5/20/2014 & 7/15/2014. Unable to accomplish cleaning sooner due to tenents work schedule.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: MARCELO GARBONIA, OC4 Date: 6/19/2014

Pier Location: Pier 2

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 0683

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: Grate

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKNOWN

After Picture taken on: 7/2/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG, Labor Crew – 1 Equipment Operator, 5 Laborers, 1 Supervisor

Date Cleaned: 7/2/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKNOWN

After Picture taken on: 7/2/2014

Cleaned Volume (cubic feet): Minimal W x L x D =
½ Rubbish Bag

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: R. McLean, HAR/OCG

Date: 6/20/2014
Revised: 8/19/2014

Pier Location: Pier 19 Gravel Lot

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI #s 3227, 3229, 3230, 3232 & 3235

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no

Illicit Connection: yes no

Before Picture taken on: 6/19/2014

After Picture taken on: 6/20/2014

Cleaning Information

Cleaning Crew by: HAR/OCG, Park Gang

Date Cleaned: 6/19/2014

Cleaning Method: vactor manual

Before Picture taken on: 6/19/2014

After Picture taken on: 6/20/2014

Cleaned Volume (cubic feet): minimal W x L x D = Three rubbish bags of rubbish

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE Date: 7/9/2014

Pier Location: PIER 52/53

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: TRENCH DRAIN #4, Row A-11, Stall 28

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE. SLIGHTLY BENT (STILL FUNCTIONAL)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 7/9/2014

After Picture taken on: 7/30/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 EQUIPMENT OPERATOR, 1 HEAVY TRUCK DRIVER, 3 LABORERS

Date Cleaned: 7/30/2014

Cleaning Method: vactor manual

Before Picture taken on: 7/9/2014

After Picture taken on:7/30/2014

Cleaned Volume (cubic feet): 3 Cubic Yards (one front loader bucket)

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: Bob Bee Date: 7/9/14

Pier Location: Pier 52/53 (MATSON)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: TRENCH DRAIN # 4, Row A-11, Stall #19, 20 & 21

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATES, SOME WERE BENT BUT STILL SAFE AND FUNCTIONAL.

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*
Illicit Connection: yes no

Before Picture taken on: 7/9/2014

After Picture taken on: 7/30/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 EQUIPMENT OPERATOR, 1 HEAVY TRUCK DRIVER, 3 LABORERS)

Date Cleaned: 7/30/2014

Cleaning Method: vactor manual

Before Picture taken on: 7/9/2014

After Picture taken on: 7/30/2014

Cleaned Volume (cubic feet): 4 Cubic feet of dirt and rubbish.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: PAUL SHIMIZU, HARBORS/OC7 Date: 7/15/2014

Pier Location: PIER 51

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3/33

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKNOWN

After Picture taken on: 8/5/2014

Cleaning Information

Cleaning Crew by: HAROBRS/OCG – 1 X EQUIPMENT OPERATOR, 3 X SWEEPER OPERATORS, 1 X HEAVY TRUCK DRIVER, 1 X SUPERVISOR

Date Cleaned: 8/5/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKNOWN

After Picture taken on: 8/5/2014

Cleaned Volume (cubic feet): Minimal dirt and rubbish. Could not go inside the drain due to enclosed space requirements. Placed “witches hat” under drain grate and “drain sock” over drain opening.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE, HAR/OC8 Date: 7/23/2014

Pier Location: TRENCH DRAIN #10, ROW E-15. SLOTS 1, 2 & 3

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: TRENCH DRAIN #10

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 7/23/2014

After Picture taken on: 8/27/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG; 1 X EQUIMENT OPERATOR, 2 HEAVY TRUCK DRIVERS, 3 X LABORERS, 1 X SUPERVISOR

Date Cleaned: 8/27/2014

Cleaning Method: vactor manual

Before Picture taken on: 7/23/2014

After Picture taken on: 8/27/2014

Cleaned Volume (cubic feet): 5 CUBIC YARDS (1 X LOADER BUCKET)

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: Marcelo Gabonia, HARBORS/OC4 Date: 7/30/2014

Pier Location: P18

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 2693

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: Grate is broken. W/O submitted to HARBORS/OM (see attached Storm Drain Inspection Report and photos)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKNOWN

After Picture taken on: 8/5/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG – 1 X LOADER OPERATOR, 3 X SWEEPER OPERATORS, 1 X HEAVY TRUCK DRIVER, 1 X SUPERVISOR

Date Cleaned: 8/5/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKOWN

After Picture taken on: 8/5/2014

Cleaned Volume (cubic feet): Minimal rubbish/dirt. "Witches hat" placed under the grate.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: Marcelo Gabonia, HARBORS/OC4 Date: 7/30/2014

Pier Location: P18

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 2695

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: Grate is broken. W/O submitted to HARBORS/OM (see attached Storm Drain Inspection Report and photos)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: UNKNOWN

After Picture taken on: 8/5/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG – 1 X LOADER OPERATOR, 3 X SWEEPER OPERATORS, 1 X HEAVY TRUCK DRIVER, 1 X SUPERVISOR

Date Cleaned: 8/5/2014

Cleaning Method: vactor manual

Before Picture taken on: UNKOWN

After Picture taken on: 8/5/2014

Cleaned Volume (cubic feet): Minimal rubbish/dirt. "Witches hat" removed and new "witches hat" placed under the grate.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: ANNE STEVENS Date: 7/30/2014

Pier Location: PIER 1 (NEAR CRANE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDMH 0044 & SDI 0045

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 7/30/2014

After Picture taken on: 11/5/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X EQUIPMENT OPERATOR, 1 X HEAVY TRUCKER & 1 X STREET SWEEPER OPERATOR)

Date Cleaned: 11/5/2014 (RECEIVED CLEANING NOTICE ON 31 OCT 2014)

Cleaning Method: vactor manual

Before Picture taken on: 7/30/2014

After Picture taken on: 11/5/2014

Cleaned Volume (cubic feet): MINIMAL AMOUNT OF RUBBISH AND DIRT.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 9/29/2014

Pier Location: PIER 19

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: Culvert Drain

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: No grating. Condition N/A.

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 9/29/2014

After Picture taken on: 10/1/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG, PARK GANG

Date Cleaned: 10/1/2014

Cleaning Method: vactor manual

Before Picture taken on: 9/29/2014

After Picture taken on: 10/1/2014

Cleaned Volume (cubic feet): MINIMAL (APPROXIMATELY 5 CUBIC FEET OF RUBBISH/DIRT/GRASS CUTTINGS

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 9/29/2014

Pier Location: PIER 31 (NEAR WOMEN'S BATHROOM)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 4360

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 9/29/2014

After Picture taken on: 11/5/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X EQUIPMENT OPERATOR, 1 X HEAVY TRUCK DRIVER, 2 X LABORERS)

Date Cleaned: 11/5/2014

Cleaning Method: vactor manual

Before Picture taken on: 9/29/2014

After Picture taken on: 11/5/2014

Cleaned Volume (cubic feet): 2 CUBIC FEET OF RUBBISH AND DIRT

Note: Took a long time to clean due to no heavy equipment to lift grate (grate too heavy for manual lift)

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 9/29/2014

Pier Location: PIER 31 (BETWEEN SHED AND CHEVRON WALL)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: 4157

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE. RUSTED BUT IN FAIR CONDITION

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 9/29/2014

After Picture taken on: 10/9/2014

Cleaning Information

Cleaning Crew by: HAROBORS/OCG

Date Cleaned: 10/9/2014

Cleaning Method: vactor manual

Before Picture taken on: 9/29/2014

After Picture taken on: 10/9/2014

Cleaned Volume (cubic feet): 0. A "witch's hat" added to drain. Inside of drain had water and no debris. This area is cut and cleaned every three weeks. The last cutting was 10/2/14

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 9/29/2014

Pier Location: PIER 31 (BETWEEN SHED AND CHEVRON WALL)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: 4183

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE. RUSTED BUT IN FAIR CONDITION

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 9/29/2014

After Picture taken on: 10/9/2014

Cleaning Information

Cleaning Crew by: HAROBORS/OCG

Date Cleaned: 10/9/2014

Cleaning Method: vactor manual

Before Picture taken on: 9/29/2014

After Picture taken on: 10/9/2014

Cleaned Volume (cubic feet): 0. A "witch's hat" added to drain. Inside of drain had water and no debris. This area is cut and cleaned every three weeks. The last cutting was 10/2/14

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE/OC8 Date: 11/12/2014

Pier Location: PIER 60 CANAL

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDO 9185

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: OPEN DITCH

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/12/2014

After Picture taken on: 12/4/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X EQUIPMENT OPERATOR, 1 X T/A HEAVY TRUCK DRIVER)

Date Cleaned: 11/20/2014 THROUGH 12/4/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/12/2014

After Picture taken on: 12/4/2014

Cleaned Volume (cubic feet): 11.85 TONS OF GREEN WASTE AND MIXED MUD/DEBRIS

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE Date: 11/14/2014

Pier Location: KIPA, PIER 60 (GATE BY PIONEER ELECTRIC BUILDING)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDO # 9190 & SDO # 9191

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: UNIMPROVED OPEN DITCH

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/14/2014

After Picture taken on: 11/25/2014

Cleaning Information

Cleaning Crew by: OCG PERSONNEL – 5 X LABORERS, 1 X EQUIPMENT OPERATOR, 1 X SUPERVISOR

Date Cleaned: 11/25/20145

Cleaning Method: vactor manual

Before Picture taken on: 11/14/2014

After Picture taken on: 11/25/2014

Cleaned Volume (cubic feet): 6 CUBIC FEET OF GREEN WASTE COLLECTED

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE Date: 11/14/2014

Pier Location: PIER 60 – KIPA (NEXT TO NIU NURSERY)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDO # 9181

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: OPEN DITCH (NEEDS DREDGING)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/14/2015

After Picture taken on: 11/20/2014

Cleaning Information

Cleaning Crew by: OCG – 1 X EQUIPMENT OPERATOR, 1 X LABORER, 1 X STREET SWEEPER OPERATOR & 1 X SUPERVISOR

Date Cleaned: 11/19/2014 & 11/20/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/14/2015

After Picture taken on: 11/19/2014

Cleaned Volume (cubic feet): 240 CUBIC FEET OF MANGROVES/TREES/MUD

.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BOB BEE Date: 11/14/2014

Pier Location: PIER 60 – KIPA (BEHIND AMERON CEMENT GRAVEL/SAND LOT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDO # 9165

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: CEMENT CULVERT

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/14/2015

After Picture taken on: 11/19/2014

Cleaning Information

Cleaning Crew by: NONE – LOCAL TENANTS CLEANED THE OF

Date Cleaned: UNKNOWN (AFTER 11/14/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/14/2015

After Picture taken on: 11/19/2014

Cleaned Volume (cubic feet): 0

NOTE: OCG PLACED DRAIN SOCKS AT THE FRONT AND REAR OF THE OUTFALL.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: PAUL SHIMIZU, OC7 Date: 11/15/2014

Pier Location: YOUNG BROTHER'S CONTAINER YARD (PARALLELL NIMITZ HWY)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 5521/5522

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/15/2014

After Picture taken on: 12/2/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (PARK GANG)

Date Cleaned: 12/2/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/15/2014

After Picture taken on: 12/2/2014

Cleaned Volume (cubic feet): NO RUBBISH FROM THE DRAIN. ALL THE RUBBISH COLLECTED WAS GRASS CUTTINGS FROM THE NORMAL YARD MAINTENANCE. TWO DRAIN GUARDS WERE PALCED IN FRONT OF THE DRAINS.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/17/2014

Pier Location: PIER 19 SHED ON KUKAHI ST

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 2484

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: CEMENT BLOCKS

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/17/2014

After Picture taken on: 12/17/2014

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: NONE

Cleaning Method: vactor manual

Before Picture taken on: 11/17/2014

After Picture taken on: 12/17/2014

Cleaned Volume (cubic feet): 0

NOTE; UNABLE TO LIFT CEMENT BLOCKS ACTING AS GRATES DUE TO POSSIBLE BREAKAGE. NO DIRT OR RUBBISH NOTED AFTER INSPECTING THE DRAIN.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 11/18/2014

Pier Location: PIER 30'S ENTRANCE (NEXT TO CHEVRON REFUELING YARD)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3970

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE NEEDS REPAIR (ONE GRATE TINE RUSTED OUT)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/16/2014

Cleaning Information

Cleaning Crew by: HARBORS OCG (1 X SUPERVISOR, 2 X STREET SWEEPER OPERATORS

Date Cleaned: 12/16/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/16/2014

Cleaned Volume (cubic feet): 1.2 CUBIC FEET OF DIRT

Note: "Witches Hat" placed over drain due to heavy traffic and amount of dirt removed from drain.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: MARK HASHIRO Date: 11/18/2104

Pier Location: PIER 1 (NEXT TO WHERE SWEEEPERS LOAD UP WITH WATER)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 0662

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/18/2014

After Picture taken on: 11/21/2014

Cleaning Information

Cleaning Crew by: OCG, 1 X EQUIOPMENT OPERATOR, 1 X STREET SWEEPER OOPERATOR, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 11/21/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/18/2014

After Picture taken on: 11/21/2014

Cleaned Volume (cubic feet): 3 CUBIC FEET OF DIRT

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/26/2014

Pier Location: PIER 26 9 (DIAMOND HEAD OF STORED EQUIPMENT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3554 (SDI 3552)

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 1X STREET SWEEPER OPERATOR)

Date Cleaned: 12/23/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaned Volume (cubic feet): .67 CUBIC FOOT

Note: Due to rubbish in SDI "witches hat" was placed over the drain. Also Area Survey indicates this SDI 3554. It is actually SDI 3552.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/26/2014

Pier Location: PIER 26 (DIAMOND HEAD OF STORED EQUIPMENT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3554 (SDI 3552)

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 1X STREET SWEEPER OPERATOR)

Date Cleaned: 12/23/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaned Volume (cubic feet): 0

Note: Area Survey indicates this SDI 3552. It is actually SDI 3554.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/26/2014

Pier Location: PIER 26

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3592

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE. Structure inside of drain needs repairing (see photos)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 1X STREET SWEEPER OPERATOR)

Date Cleaned: 12/23/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/26/2014

After Picture taken on: 12/23/2014

Cleaned Volume (cubic feet): 5.35 CUBIC FEET OF DIRT/MUD/DEBRIS.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 11/26/2014

Pier Location: PIER 22 (NEXT TO YOUNG BROTHERS BARGE MAINTENANCE SHED)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 2802

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: RUSTED GRATE – POSSIBLE REPLACEMENT REQUIRED.

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/26/2014

After Picture taken on: 12/9/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X EQUIPMENT OPERATOR, 4 X GENERAL LABORERS, 1 X SUPERVISOR I)

Date Cleaned: 12/9/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/26/2014

After Picture taken on: 12/9/2014

Cleaned Volume (cubic feet): NO DIRT OR RUBBISH COLLEDTED – ONLY PLACE WITCHES HAT OVER DRAIN. NOTE: TENANTS COMPLAINED WITH IT RAINS THE AREA IS FLOODED. WILL MONITOR FOR FLOODING AND FIX ACCORDINGLY.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 11/26/2014

Pier Location: PIER 22 (NEXT TO DHX REAR CARGO LOADING AREA)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 2808 (OLD NUMBER SDI 3169)

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE – SEE NOTE BELOW

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/26/2014

After Picture taken on: 12/9/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X EQUIPMENT OPERATOR, 4 X GENERAL LABORERS, 1 X SUPERVISOR I)

Date Cleaned: 12/9/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/26/2014

After Picture taken on: 12/9/2014

Cleaned Volume (cubic feet): HALF BAG FULL OF DIRT OR RUBBISH COLLECTED – REPLACED WITH NEW WITCHES HAT IN DRAIN. NOTE: THERE IS A SINK HOLE BETWEEN THE DRAIN AND THE BUILDING (SEE PHOTOS).

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

ADDENDUM – 12/16/2014

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEAR MAIN ENTRANCE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3968

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE BROKEN (EXTRA PICTURES INCLUDED FOR AREA SURVEY TO OM)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 2 CUBIC FEET

Added: "Witches Hat" place over drain on 12-16-2014

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (IN ALLEY WAY PRIOR TO ENTRANCE OF PIER SHED)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3904

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): SOME SURFACE RUBBISH ONLY (OLD GRASS CUTTINGS)

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (IN ALLEY WAY PRIOR TO ENTRANCE OF PIER SHED)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3924

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): SOME SURFACE RUBBISH ONLY (OLD GRASS CUTTINGS)

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (RIGHT AFTER FENCE GATE ON THE LEFT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3962

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: NONE

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: N/A

Cleaning Method: vactor manual

Before Picture taken on:

After Picture taken on:

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (RIGHT AFTER FENCE GATE ON THE LEFT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3964

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: NONE

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: N/A

Cleaning Method: vactor manual

Before Picture taken on:

After Picture taken on:

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEW AUTO PARKING AREA NEXT TO MAIN GATE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3904

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 EQUIPMENT OPERATOR, 2 STREET SWEEPER OPERATORS, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 2 CUBIC FEET OF DIRT/RUBBISH

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEAR MAIN ENTRANCE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3968

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE BROKEN (EXTRA PICTURES INCLUDED FOR AREA SURVEY TO OM)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 2 CUBIC FEET

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE/OC6 Date: 11/28/2014

Pier Location: FRONT ENTRANCE TO THE PIER 30S (NEXT TO CHEVRON TANK FARM)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3972

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE IS IN GOOD CONDITION. THE BASIC STRUCTURE IS STARTING TO CRUMBLE AND NEEDS REPARING.

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/16/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG

Date Cleaned: 12/16/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/16/2014

Cleaned Volume (cubic feet): 4.8 CUBIC FEET

NOTE: "Witches Hat" placed over the drain due to heavy traffic and amount of dirt pulled from the drain.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEAR MAIN ENTRANCE, FENCE LINE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 4130

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: HARBORS/OCG (1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER OPERATORS, 1 T/A HEAVY TRUCK DRIVER)

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 1 CUBIF FEET OF DIRT/RUBBISH

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEAR MAIN ENTRANCE, FENCE LINE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 4132

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE BROKEN (EXTRA PICTURES INCLUDED FOR AREA SURVEY TO OM)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: NO CLEANING REQUIRED

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (RIGHT AFTER FENCE GATE ON THE LEFT)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 4134

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: NONE

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: N/A

Cleaning Method: vactor manual

Before Picture taken on:

After Picture taken on:

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (RIGHT AFTER FENCE GATE ON THE LEFT, THIRD DRAIN IN LINE)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 4136

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks:

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: NONE

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: 12/12/2014 – DRAIN INSPECTED BY OCG SUPERVISOR

Cleaning Method: vactor manual

Before Picture taken on:

After Picture taken on:

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 31 (NEXT TO WOMEN'S BATHROOM)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3904

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: 1 X SUPERVISOR, 1 X EQUIPMENT OPERATOR, 2 X STREET SWEEPER, 1 X T/A HEAVY TRUCK DRIVER

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): MINIMAL DIRT IN DRAIN, MOSTLY PAPER RUBBISH IN "WITCHES HAT"

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 32 (NEXT TO MEN'S OUTSIDE BATHROOM)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3904

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE BROKEN, EXTRA PICTURES PROVIDED (FOR AREA SURVEY TO OM)

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: BILLY LEE Date: 11/28/2014

Pier Location: PIER 32 (NEXT TO MEN'S OUTSIDE BATHROOM)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: SDI 3904

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: GRATE

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaning Information

Cleaning Crew by: NONE

Date Cleaned: 12/11/2014

Cleaning Method: vactor manual

Before Picture taken on: 11/28/2014

After Picture taken on: 12/11/2014

Cleaned Volume (cubic feet): 0

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

STORM DRAIN INSPECTION

Inspected by: ROBERT A. McLEAN/OCG Date: 12/9/2014

Pier Location: PIER 22 (DIAMOND HEAD OF PIER OPERATIONS OFFICE FOR YOUNG BROTHERS)

Type of Structure: SDI SDT SDMH PL OF

I.D. Number: POSSIBLE SDI 2792

Condition of Structure: good fair bad
(Box, Grate, Piping) Remarks: PIPING IS BROKEN AND CRACKED CEMENT/ASHPALT IS BROKEN AND CRACKED

Cleaning Needed: yes no

Stenciling Needed: yes no *Note: Drain Number Identifiers should be painted near the drain to assist in identifying the drains.*

Illicit Connection: yes no

Before Picture taken on: 12/9/2014

After Picture taken on:

Cleaning Information

Cleaning Crew by:

Date Cleaned:

Cleaning Method: vactor manual

Before Picture taken on:

After Picture taken on:

Cleaned Volume (cubic feet): W x L x D =

NOTE: TENANTS COMPLAINED THE AREA BECOMES FLOODED WHEN IT RAINS. I'M UNSURE ON WHAT TO DO.

Legend: SDI (storm drain inlet) SDMH (storm drain man-hole) OF (out fall)
SDT (storm drain trench)

Attachment 27. HAR-OCG Storm Drain Inspection Field Records

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-1	B	1	0316	1/24/2014	3 NDG	MG	
P-1	B	2	0336	1/24/2014	3 NDG	MG	
P-1	B	3	0346	1/24/2014	3 NDG	MG	
P-1	B	4	0366	1/24/2014	CF	MG	
P-1	B	5	0367	1/24/2014	SWD	MG	STORM DRAIN COVER
P-1	B	6	0375	1/24/2014	SWD	MG	STORM DRAIN COVER
P-1	B	7	0385	1/24/2014	1 DGIP NC	MG	
P-1	B	8	0395	1/24/2014	1 DGIP NC	MG	
P-1	B	9	0055	1/24/2014	3 NDG SC	MG	
P-1	B	10	0035	1/24/2014	3 NDG SC	MG	
P-1	B	11	0015	1/24/2014	3 NDG SC	MG	
P-1	B	12	0045	1/24/2014	3 NDG SC	MG	
P-1	B	13	0248	1/24/2014	MH	MG	MAN HOLE COVER
P-1	B	14	0365	1/24/2014	SWD	MG	STORM DRAIN COVER
P-1	B	?	0085	1/24/2014	3 NDG SC	MG	
P-2	B	1	0195	1/18/2014	2 NGC SC	MG	
P-2	B	2	0662	1/18/2014	MH	MG	
P-2	B	3	0065	1/18/2014	3 NDG SC	MG	
P-2	B	4	0672	1/18/2014	SWD	MG	STORM DRAIN COVER
P-2	T	1	440'	1/18/2014	2 NC	MG	
P-2			778	1/18/2014	CB	MG	Area Survey submitted 1/31/14-Boom Missing
P-2			774	1/18/2014	CB	MG	Area Survey submitted 1/31/14-BOOM MISSING
P-2			696	1/18/2014	CB	MG	Area Survey submitted 1/31/14-BOOM HALF WAY IN DRAIN
P-2			692	1/18/2014	CB	MG	Area Survey submitted 1/31/14-BOOM HALF WAY IN DRAIN
P-2							

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
P-2			688	1/18/2014	CB	MG	STREET STORM DRAIN
P-2			683	1/18/2014	CB	MG	STREET STORM DRAIN
P-2			678	1/18/2014	CB	MG	STREET STORM DRAIN
P-2			672	1/18/2014	CB	MG	STREET STORM DRAIN
P-2			665	1/18/2014	MH	MG	
P-2			728	1/18/2014	3 NDG SC	MG	
P-2			724	1/18/2014	3 NDG SC	MG	
P-2			722	1/18/2014	3 NDG SC	MG	
P-2			656	1/18/2014	3 NDG SC	MG	
P-2			657	1/18/2014	3 NDG SC		

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-10	B	1	1314	1/18/2014	NC	MG	
P-11 SHED	PD	1	None	1/18/2014	NC	MG	
P-11 SHED	PD	2	None	1/18/2014	NC	MG	
P-11 SHED	PD	3	None	1/18/2014	NC	MG	
P-11 SHED	PD	4	None	1/18/2014	NC	MG	
P-11 ADM.	PD	1	None	1/18/2014	NC	MG	
P-11 ADM.	PD	2	None	1/18/2014	NC	MG	
P-11 ADM.	PD	3	None	1/18/2014	NC	MG	
P-11 ADM.	PD	4	None	1/18/2014	NC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-18	B	1	2693	1/10/2014	NC-2	DO	BOUY AS PREVIOUSLY REPORTED, AREA SURVEY AS OF 1/16/14
P-18	B	2	2695	1/10/2014	NC-WATER	DO	
P-18	B	3	2697	1/10/2014	NC-WATER	DO	
P-18	B	4	2699	1/10/2014	NC-WATER	DO	
P-18	B	5	2701	1/10/2014	NC-WATER	DO	
P-18	B	6	2703	1/10/2014	NC-WATER	DO	CLEANED BY OCG 11/27/13(AREA SURVEY 11/26/13

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-19	B	1	2730	1/7/2014	NDG SC	BL	
P-19	B	2	2728	7-Jan	NDG SC	BL	
P-19	B	3	2726	1/7/2014	DGIP NC	BL	
P-19	B	4	2724	7-Jan	DGIP NC	BL	
P-19	B	5	2722	7-Jan	DGIP NC	BL	
P-19	B	6	2727	7-Jan	NDG SC	BL	
P-19	B	7	SDI ?	7-Jan	MH	BL	Manhole not able to view
P-19	B	8	3231	7-Jan	NDG SC	BL	
Super Ferry	B	9	2827	1/7/2014	NDG SC	BL	
" "	B	10	2828	1/7/2014	NDG SC	BL	
" "	B	11	2826	1/7/2014	NDG SC	BL	
" "	B	12	2830	1/7/2014	NDG SC	BL	
" "	B	13	2829	1/7/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-20 yd.	B	14	2896	1/7/2014	NDG SC	BL	
P-20 yd.	B	15	2831	1/7/2014	NDG SC	BL	
P-20 yd.	B	16	2895	1/7/2014	NDG SC	BL	
P-20 yd.	B	17	2897	1/7/2014	NDG SC	BL	
P-20 yd.	culvert	18	2880	1/7/2014	SC	BL	
P-20 yd.	culvert	19	2881	1/7/2014	SC	BL	
P-21	B	1	2985	1/7/2014	DGIP SC	BL	
P-21	B	2	2950	1/7/2014	DGIP SC	BL	
Whse 6	Roadwy-B	3	3172	1/7/2014	DGIP NC	BL	
Whse 6	Roadwy-B	4	3174	1/7/2014	DGIP NC	BL	
Whse 6	Roadwy-B	5	3175	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	6	3173	1/7/2014	DGIP NC	BL	
Whse 6	Roadwy-B	7	3176	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	8	3177	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	9	3178	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	10	3179	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	11	3180	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	12	3181	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	13	3183	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	14	3182	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	15	3184	1/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	16	3185	1/7/2014	NDG SC	BL	
Whse 8	Roadwy-B	17	3192	1/7/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-22	B	1	3169	1/14/2014	DGIP NC	BL	
P-22	B	2	3170	1/14/2014	NDG SC	BL	
P-22	B	3	3171	1/14/2014	NDG SC	BL	
P-23	B	20	3193	1/14/2014	NDG SC	BL	
P-23	B	21	3250	1/14/2014	NDG SC	BL	
P-23	B	22	3210	1/14/2014	NDG SC	BL	
P-23	B	23	3212	1/14/2014	NDG SC	BL	
P-23	B	24	3213	1/14/2014	NDG SC	BL	
P-23	B	25	3295	1/14/2014	NDG SC	BL	
P-23	B	26	3187	1/14/2014	NDG SC	BL	
P-23	B	27	3188	1/14/2014	NDG SC	BL	
P-23	B	28	3186	1/14/2014	NDG SC	BL	
open lot	B	29	3229	1/14/2014	DGIP SC	BL	
open lot	B	30	3228	1/14/2014	NDG SC	BL	
open lot	B	31	3230	1/14/2014	DGIP SC	BL	
open lot	B	32	3232	1/14/2014	DGIP SC	BL	
open lot	B	33	3227	1/14/2014	DGIP SC	BL	
open lot	B	34	3224	1/14/2014	NDG SC	BL	
open lot	B	35	3235	1/14/2014	DGIP SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-24	B	34	3265	1/21/2014	NDG SC	BL	
P-24	B	35	3280	1/21/2014	NDG SC	BL	
P-24	B	36	3275	1/21/2014	NDG SC	BL	
P-24	B	37	3285	1/21/2014	NDG SC	BL	
P-24	B	38	3483	1/21/2014	NDG SC	BL	
P-24	B	39	4119	1/21/2014	DGIP SC	BL	
P-24	B	40	4121	1/21/2014	DGIP SC	BL	
P-24	B	41	4123	1/21/2014	NDG SC	BL	
P-25	B	1	3530	1/21/2014	NDG SC	BL	
P-25	B	2	3507	1/21/2014	NDG SC	BL	
P-25	B	3	3490	1/21/2014	NDG SC	BL	
P-26	B	4	3480	1/21/2014	NDG SC	BL	
P-26	B	5	3482	1/21/2014	DGIP SC	BL	
P-27	B	6	3481	1/21/2014	NDG SC	BL	
P-29	T	1	SDT 1	1/21/2014	SC	BL	
P-29	T	2	SDT 2	1/21/2014	SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-31	B	1	4356	1/22/2014	NDG SC	BL	
P-31	B	2	4357	1/22/2014	NDG SC	BL	
P-31	B	3	4279	1/22/2014	NDG SC	BL	
P-31	B	18A	4273	1/22/2014	NDG SC	BL	
P-31	B	17A	4272	1/22/2014	NDG SC	BL	
P-31	B	21	4183	1/22/2014	NDG SC	BL	
P-31	B	20	4157	1/22/2014	NDG SC	BL	
P-31	B	17	4267	1/22/2014	NDG SC	BL	
P-31	B	18	4268	1/22/2014	NDG SC	BL	
P-31	B	19	4269	1/22/2014	NDG SC	BL	
P-31	B	22	4270	1/22/2014	NDG SC	BL	
P-32	B	25	4271	1/22/2014	NDG SC	BL	
P-32	B	19	4274	1/22/2014	NDG SC	BL	
P-32	B	6	4275	1/22/2014	NDG SC	BL	
P-32	B	5	4276	1/22/2014	NDG SC	BL	
P-32	B	4	4277	1/22/2014	NDG SC	BL	
P-32	B	7	4280	1/22/2014	NDG SC	BL	
P-32	B	16	4256	1/22/2014	NDG SC	BL	
P-32	T	1	SDT 4288	1/22/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	1	SDT 4284	1/22/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 24300	1/22/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4301	1/22/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4296	1/22/2014	Covered	BL	Should be on a regular maintenance program related to cleaning

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-32	T	3	SDT 4258	1/22/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4259	1/22/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4253	1/22/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-33	B	16	4360	1/22/2014	DGIP NC	BL	
P-33	B	27	4361	1/22/2014	NDG SC	BL	
P-33	B	15	4362	1/22/2014	NDG SC	BL	
P-33	B	1	4370	1/22/2014	NDG SC	BL	
P-33	B	3	4375	1/22/2014	NDG SC	BL	
P-33	B	2	4382	1/22/2014	NDG SC	BL	
P-33	B	13	4385	1/22/2014	NDG SC	BL	
P-33	B	11	4390	1/22/2014	NDG SC	BL	
P-33	B	12	4395	1/22/2014	NDG SC	BL	
P-33	B	14	4364	1/22/2014	NDG SC	BL	
P-33	B	13	4368	1/22/2014	NDG SC	BL	
P-33	B	21	4454	1/22/2014	Covered	BL	No drain as metal cover
P-33	B	20	4458	1/22/2014	NDG SC	BL	
P-33	B	4	4460	1/22/2014	NDG SC	BL	
P-33	B	15	4465	1/22/2014	NDG SC	BL	
P-34	B	1	4491	1/22/2014	NDG SC	BL	
P-34	B	2	4495	1/22/2014	NDG SC	BL	
P-34	B	3	4499	1/22/2014	NDG SC	BL	
P-34	B	4	4503	1/22/2014	NDG SC	BL	
P-34	B	5	4507	1/22/2014	NDG SC	BL	
P-34	B	6	4511	1/22/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-35	B	1	4512	1/22/2014	Covered	BL	Should inspect
P-35	B	2	4513	1/22/2014	Covered	BL	Should inspect
P-35	B	3	4514	1/22/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-39/40	B	1	5721	1/14/2014	NC	BB	Curb Drain
P-39/40	B	2	5570	1/14/2014	NC	BB	Curb Drain
P-39/40	B	3	5550	1/10/2014	NDG NC	BB	
P-39/40	B	4	5551	1/10/2014	NC	BB	
P-39/40	B	5	5552	1/10/2014	NC	BB	
P-39/40	B	6	5553	1/14/2014	NC	BB	MH
P-39/40	B	7	5554	1/14/2014	NC	BB	MH
P-39/40	B	8	None	1/14/2014	NC	BB	Steel Plate Covering
P-39/40	B	9	None	1/14/2014	NC	BB	
P-39/40	B	10a	None	1/14/2014	NC	BB	x
P-39/40	B	11	5931	1/14/2014	NC	BB	
P-39/40	B	12	5930	1/14/2014	NC	BB	
P-39/40	B	13	5720	1/14/2014	NC	BB	
P-39/40	B	14	None	1/14/2014	NC	BB	MH
P-39/40	TD	1	None	1/10/2014	NC	BB	
P-41	B	1	None	1/10/2014	NC	BB	
P-41	B	2	None	1/10/2014	NC	BB	
P-41	B	3	None	1/10/2014	NC	BB	
P-41	B	4	None	1/10/2014	NC	BB	
P-41	B	5	None	1/10/2014	NC	BB	
P-41	B	6	None	1/10/2014	NC	BB	
P-41	B	7	None	1/10/2014	NC	BB	
P-41	B	8	None	1/10/2014	NC	BB	
P-41	B	9	None	1/10/2014	NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-41	B	10	None	1/10/2014	NC	BB	
P-41	B	11	None	1/10/2014	NC	BB	
P-41	B	12	None	1/10/2014	NC	BB	
P-41	B	13	None	1/10/2014	NC	BB	
P-42	B	1	None	1/10/2014	NC	BB	
P-42	B	2	None	1/10/2014	NC	BB	
P-42	B	3	None	1/10/2014	NC	BB	
P-42	B	4	None	1/10/2014	NC	BB	
P-42	B	5	None	1/10/2014	NC	BB	
P-42	B	6	None	1/10/2014	NC	BB	
P-42	B	7	None	1/10/2014	NC	BB	
P-42	B	8	None	1/10/2014	NC	BB	
P-42	B	9	None	1/10/2014	NC	BB	
P-42	B	10	None	1/10/2014	NC	BB	
KMR	B	1	None	1/7/2014	NDG NC	BB	
KMR	B	2	None	1/7/2014	NDG NC	BB	
KMR	B	3	None	1/7/2014	NC	BB	
KMR	B	4	None	1/7/2014	NDG NC	BB	
KMR	B	5	None	1/7/2014	NDG NC	BB	
KMR	B	6	None	1/7/2014	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	7	None	1/7/2014	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	8	None	1/7/2014	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	9	None	1/7/2014	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	10	None	1/7/2014	NDG NC	BB	Inside Dept. of Ag Fenced Area

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
KMR	B	11	None	1/7/2014	NC	BB	Cleaned 9/18/13
KMR	B	12	None	1/7/2014	NC	BB	Cleaned 9/18/13
KMR	B	13	None	1/7/2014	NDG IC	BB	Area Survey-January 7, 2014 (Cleaned 1/14/14)
KMR	B	14	None	1/7/2014	NDG NC	BB	
KMR	B	15	None	1/7/2014	NC	BB	Cleaned 10/15/13
KMR	B	16	None	1/7/2014	NDG NC	BB	
KMR	B	17	None	1/7/2014	NDG NC	BB	
KMR	B	18	None	1/7/2014	NDG NC	BB	
KMR	B	19	None	1/7/2014	NDG NC	BB	
KMR	B	20	None	1/7/2014	NDG NC	BB	
KMR	B	21	None	1/7/2014	NDG NC	BB	
KMR	B	22	None	1/7/2014	NDG NC	BB	
KMR	B	23	None	1/7/2014	NDG NC	BB	
KMR	B	24	None	1/7/2014	NDG NC	BB	Cleaned 11/7/13
KMR	B	25	None	1/7/2014	NDG NC	BB	
KMR	B	26	None	1/7/2014	NDG NC	BB	
KMR	B	27	None	1/7/2014	CF	BB	Area fenced in-PCS Yard
KMR	B	28	None	1/7/2014	NC	BB	
KMR	B	29	None	1/7/2014	NC	BB	
KMR	B	30	None	1/7/2014	NC	BB	
KMR	B	31	None	1/7/2014	NC	BB	
KMR	B	32	None	1/7/2014	NC	BB	
KMR	B	33	None	1/7/2014	NC	BB	
KMR	B	34	None	1/7/2014	NC	BB	Area Survey-11/22/13-IC
KMR	B	35	None	1/7/2014	NC	BB	Steel Plate Covering

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3d/2	1/22/2014	NDG NC	BB	
P-51A	B		3c/35	1/24/2014	NDG NC	BB	
P-51A	B		3e/1	1/22/2014	NDG NC	BB	
P-51B	B		3-Apr	1/22/2014	NDG NC	BB	
P-51B	B		4a/4	1/121/4	NDG NC	BB	
P-51B	B		5	1/121/4	NDG NC	BB	
P-51B	B		b54/3	1/121/4	NDG NC	BB	
P-51B	B		B53	1/121/4	NDG NC	BB	
P-51B	B		B52	1/121/4	NDG NC	BB	
P-51B	B		B51/11	1/121/4	NDG NC	BB	
P-51B	B		5/38	1/26/2014	NDG NC	MG	(Entrance)
P-51B	B		5a/38	1/26/2014	NDG NC	MG	
P-51B	B		B42	1/26/2014	NDG NC	MG	
P-51C	B		B41/4	1/26/2014	CF	MG	Under Containers
P-51C	B		B31/6	1/26/2014	CF	MG	Under Containers
P-51C	B		B9/7	1/26/2014	CF	MG	Under Containers
P-51C	B		B10	1/26/2014	CF	MG	Under Containers
P-51C	B		B12	1/21/2014	NDG NC	BB	
P-51C	B		B35/11	1/26/2014	CF	MG	Under Containers
P-52	B		B36	1/26/2014	CF	MG	Under Containers
P-52	B		NEW	1/24/2014	NDG NC	BB/MG	
P-51	B		1m	1/26/2014	CF	MG	Under Containers
P-51B	B		1L/8	1/26/2014	CF	MG	Under Containers
P-51B	B		1K/8	1/26/2014	CF	MG	Under Containers
P-51B	B		1J7	1/26/2014	CF	MG	Under Containers
P-51A	B		1n/9	1/26/2014	CF	MG	Under Containers

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3b/36	1/26/2014	NDG NC	MG	
P-51A	B		3a/34	1/26/2014	NDG NC	MG	
P-51A	B		3/33	1/26/2014	NDG NC	MG	
P-51A	B		1z/32	1/26/2014	NDG NC	MG	
P-51A	B		1x30	1/26/2014	NDG NC	MG	
P-51A	B		1y31	1/26/2014	NDG NC	MG	
P-51A	B		1w/29	1/26/2014	CF	MG	Under Containers
P-51A	B		1v/28	1/26/2014	NDG NC	MG	
P-51A	B		1u27	1/26/2014	NDG NC	MG	
P-51A	B		1t/26	1/26/2014	NDG NC	MG	
P-51A	B		1r7	1/26/2014	NDG NC	MG	
P-51A	B		1s/24	1/26/2014	CF	MG	Under Containers
P-51A	B		2b	1/26/2014	NDG NC	MG	
P-51A	B		2d/38	1/22/2014	NDG NC	BB	
P-51A	B		2c/37	1/22/2014	NDG NC	BB	
P-51A	B		2a/22	1/26/2014	NDG NC	MG	
P-51	B		1aa	1/28/2014	CF	BB	Under Containers
P-51	B		1bb/21	1/28/2014	NC	BB	
P-51	B		1p/15	1/28/2014	NDG NC	BB	
P-51	B		1q	1/28/2014	NC	BB	
P-51	B		1H1/17	1/28/2014	NDG NC	BB	
P-51	B		H2/20	1/28/2014	NC	BB	
P-51B	B		1f/11	1/28/2014	NC	BB	
P-51B	B		1c	1/28/2014	NDG NC	BB	
P-51B	B		1e	1/28/2014	NC	BB	
P-51B	B		1d	1/28/2014	NC	BB	
P-51B	B		1c/16	1/28/2014	NDG NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51B	B		xx??				
P-51B	B		1b/15	1/24/2014	NDG NC	BB/MG	
P-51B	B		A4/16	1/24/2014	NDG NC	BB/MG	
P-51B	B		A10	1/24/2014	NDG NC	BB/MG	
P-51B	B		A11	1/24/2014	NDG NC	BB/MG	
P-51B	B		A6	1/24/2014	CF	BB/MG	Under Containers
P-51B	B		1i/17	1/29/2014	CF	BB	Under Containers
P-51B	B		A7/18	1/29/2014	CF	BB	Under Containers
P-51B	B		A8/19	1/29/2014	CF	BB	Under Containers
P-51B	B		B20/20	1/24/2014	NDG NC	BB/MG	
P-51B	B		B4	1/24/2014	NDG NC	BB/MG	
P-51B	B		B6	1/24/2014	NDG IC	BB/MG	Area Survey-1/24/14
P-52	B		B25	1/24/2014	NDG IC	BB/MG	Area Survey-11/15/13
P-52	B		EXTRA	1/29/2014	CF	BB	Under Containers
P-52	B		EXTRA	1/29/2014	CF	BB	Under Containers
P-52	B		EXTRA	1/29/2014	CF	BB	Under Containers
P-52	B		E80/50	1/14/2014	NDG NC	BB	
P-52	B		E95	1/14/2014	NDG NC	BB	
P-52	B		E94	1/14/2014	NC	BB	
P-52	B		E81/49	1/14/2014	NC	BB	
P-52	B		E82/48	1/14/2014	NC	BB	
P-52	B		E83/47	1/14/2014	NDG NC	BB	
P-52	B		E91	1/14/2014	NDG NC	BB	
P-52	B		E92	1/14/2014	NDG NC	BB	
P-52	B		E93	1/14/2014	NC	BB	
P-52	B		E84/46	1/14/2014	NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52	B		E101	1/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E102	1/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E103	1/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		143	1/14/2014	NDG	BB	
P-52	B		E86/42	1/14/2014	NDG NC	BB	
P-52	B		E87/41	1/14/2014	NDG NC	BB	
P-52	B		E88/40	1/14/2014	NDG NC	BB	
P-52	B		E62/37	1/14/2014	NDL NC	BB	Partially Hidden under container-See attached Picture
P-52	B		E63/36	1/14/2014	CF	BB	Under Containers
P-52	B		E10/35	1/14/2014	CF	BB	Under Containers
P-52	B		E65/34	1/14/2014	CF	BB	Under Containers
P-52	B		E66/33	1/14/2014	CF	BB	Under Containers
P-52	B		E68	1/14/2014	CF	BB	Under Containers
P-52	B		E51	1/14/2014	NDG NC	BB	
P-52	B		52/29	1/14/2014	NDG NC	BB	
P-52	B		E51/28	1/14/2014	NDG NC	BB	
P-52	B		E54A/27	1/14/2014	NDG NC	BB	
P-52	B		E54/26	1/14/2014	NDG NC	BB	
P-52	B		56/25	1/14/2014	NDG NC	BB	
P-53	B		E89/39	1/14/2014	NC	BB	
P-53	B		F8/31	1/14/2014	CF	BB	Under Containers
P-53	B		F6/21	1/14/2014	NDG NC	BB	
P-53	B		F7/24	1/14/2014	NDG NC	BB	
P-53	B		F2/23	1/14/2014	NDG NC	BB	
P-53	B		F4/2	1/14/2014	NDG NC	BB	
P-52/53	T	1		1/14/2014	NDG IC	BB	350' Mark-Rubbish, Silt-Area Survey 1/14/14
P-52/53	T	2		1/14/2014	NDG-3	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52/53	T	3		1/14/2014	NDG-3	BB	
P-52/53	T	4		14-Jan	NDG-3	BB	RB-Repair grating Stalls, #11,13,15,33,60 & Roadway between C12-B11
P-52/53	T	5		1/14/2014	NDG-4	BB	RB-IC Stall #12,13,16, repair grating stalls #12,20,22,25,30,31,33
P-52/53	T	6		1/14/2014	NDG-4	BB	RB-IC stall #28,repair grating Stall #29,32, roadway between D19 & B5
P-52/53	T	7		1/14/2014	SC	BB	Some areas need cleaning-Under Chassis's-Cleaned 1/14/14
P-52/53	T	8		1/14/2014	NDG NC	BB	RB-Area Survey-IC-11/15/13-Serviced 12/17/13
P-52/53	T	9		1/14/2014	NDG-3	BB	
P-52/53	T	10		1/14/2014	NDG-3	BB	
P-52/53	T	11		1/24/2014	NDG NC	BB/MG	
P-51	T	12		1/24/2014	NDG NC	BB/MG	

C .C
6 M³
2.390 FT³
CIMC

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-1	B	1	0316	3/15/2014	3 NDG	MG	
P-1	B	2	0336	3/15/2014	3 NDG	MG	
P-1	B	3	0346	3/15/2014	3 NDG	MG	
P-1	B	4	0366	3/15/2014	CF	MG	
P-1	B	5	0367	3/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	6	0375	3/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	7	0385	3/15/2014	1 DGIP NC	MG	
P-1	B	8	0395	3/15/2014	1 DGIP NC	MG	
P-1	B	9	0055	3/15/2014	3 NDG SC	MG	
P-1	B	10	0035	3/15/2014	3 NDG SC	MG	
P-1	B	11	0015	3/15/2014	3 NDG SC	MG	
P-1	B	12	0045	3/15/2014	3 NDG SC	MG	
P-1	B	13	0248	3/15/2014	MH	MG	MAN HOLE COVER
P-1	B	14	0365	3/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	15	0085	3/15/2014	1 SC	MG	
P-2	B	1	0195	3/8/2014	2 NGC SC	MG	
P-2	B	2	0662	3/8/2014	MH	MG	
P-2	B	3	0065	3/8/2014	3 NDG SC	MG	
P-2	B	4	0672	3/8/2014	SWD	MG	STORM DRAIN COVER
P-2	T	1	440'	3/8/2014	2 NC	MG	
P-2			778	3/8/2014	CB	MG	
P-2			774	3/8/2014	CB	MG	
P-2			696	3/8/2014	CB	MG	
P-2			692	3/8/2014	CB	MG	
P-2			688	3/8/2014	CB	MG	STREET STORM DRAIN
P-2			683	3/8/2014	CB	MG	STREET STORM DRAIN

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections				
P-2			678	3/8/2014	CB	MG	STREET STORM DRAIN	
P-2			672	3/8/2014	CB	MG	STREET STORM DRAIN	
P-2			665	3/8/2014	MH	MG		
P-2			728	3/8/2014	3 NDG SC	MG		
P-2			724	3/8/2014	3 NDG SC	MG		
P-2			722	3/8/2014	3 NDG SC	MG		
P-2			656	3/8/2014	3 NDG SC	MG		
P-2			657	3/8/2014	3 NDG SC	MG		

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-10	B	1	1314	3/15/2014	NC	MG	
P-11 SHED	SWD	1	None	3/15/2014	NC	MG	
P-11 SHED	SWD	2	None	3/15/2014	NC	MG	
P-11 SHED	SWD	3	None	3/15/2014	NC	MG	
P-11 SHED	SWD	4	None	3/15/2014	NC	MG	
P-11 ADM.	SWD	1	None	3/25/2014	SC	MG	NEED CLEANING - Area Survey 3/25/14
P-11 ADM.	SWD	2	None	3/25/2014	SC	MG	CATCHMENT NEED TO BE REPLACE/CLEAN- Area Survey 3/25/14
P-11 ADM.	SWD	3	None	3/25/2014	SC	MG	CATCHMENT NEED TO BE REPLACE/CLEAN- Area Survey 3/25/14
P-11 ADM.	SWD	4	None	3/25/2014	SC	MG	CATCHMENT NEED TO BE REPLACE/CLEAN- Area Survey 3/25/14
P-11 ADM.	SWD	5	None	3/25/2014	SC	MG	CATCHMENT NEED TO BE REPLACE/CLEAN- Area Survey 3/25/14

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-18	B	1	2693	3/21/2014	NC-2	DO	
P-18	B	2	2695	3/21/2014	NC-3	DO	
P-18	B	3	2697	3/21/2014	NC-2	DO	
P-18	B	4	2699	3/21/2014	NC-2	DO	
P-18	B	5	2701	3/21/2014	NC-2	DO	
P-18	B	6	2703	3/21/2014	NC-2	DO	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-19	B	1	2730	3/6/2014	NDG SC	BL	
P-19	B	2	2728	3/6/2014	NDG SC	BL	
P-19	B	3	2726	3/6/2014	DGIP SC	BL	
P-19	B	4	2724	3/6/2014	DGIP SC	BL	
P-19	B	5	2722	3/6/2014	DGIP SC	BL	
P-19	B	6	2727	3/6/2014	NDG SC	BL	
P-19	B	7	SDI ?	3/6/2014	MH	BL	Manhole not able to view
P-19	B	8	3231	3/6/2014	NDG SC	BL	
Super Ferry	B	9	2827	3/6/2014	NDG SC	BL	
" "	B	10	2828	3/6/2014	NDG SC	BL	
" "	B	11	2826	3/6/2014	NDG SC	BL	
" "	B	12	2830	3/6/2014	NDG SC	BL	
" "	B	13	2829	3/6/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No.	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-20 yd.	B	14	2896	3/6/2014	NDG SC	BL	
P-20 yd.	B	15	2831	3/6/2014	NDG SC	BL	
P-20 yd.	B	16	2895	3/6/2014	NDG SC	BL	
P-20 yd.	B	17	2897	3/6/2014	NDG SC	BL	
P-20 yd.	culvert	18	2880	3/6/2014	SC	BL	
P-20 yd.	culvert	19	2881	3/6/2014	SC	BL	
P-21	B	1	2985	3/6/2014	NDG SC	BL	
P-21	B	2	2950	3/6/2014	DGIP SC	BL	
Whse 6	Roadwy-B	3	3172	3/7/2014	DGIP SC	BL	
Whse 6	Roadwy-B	4	3174	3/7/2014	DGIP SC	BL	
Whse 6	Roadwy-B	5	3175	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	6	3173	3/7/2014	DGIP SC	BL	
Whse 6	Roadwy-B	7	3176	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	8	3177	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	9	3178	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	10	3179	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	11	3180	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	12	3181	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	13	3183	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	14	3182	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	15	3184	3/7/2014	NDG SC	BL	
Whse 6	Roadwy-B	16	3185	3/7/2014	NDG SC	BL	
Whse 8	Roadwy-B	17	3192	3/7/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-22	B	1	3169	3/11/2014	DGIP SC	BL	
P-22	B	2	3170	3/11/2014	NDG SC	BL	
P-22	B	3	3171	3/11/2014	NDG SC	BL	
P-23	B	20	3193	3/11/2014	NDG SC	BL	
P-23	B	21	3250	3/11/2014	NDG SC	BL	
P-23	B	22	3210	3/11/2014	NDG SC	BL	
P-23	B	23	3212	3/11/2014	NDG SC	BL	
P-23	B	24	3213	3/11/2014	NDG SC	BL	
P-23	B	25	3295	3/11/2014	NDG SC	BL	
P-23	B	26	3187	3/11/2014	NDG SC	BL	
P-23	B	27	3188	3/11/2014	NDG SC	BL	
P-23	B	28	3186	3/11/2014	NDG SC	BL	
open lot	B	29	3229	3/11/2014	DGIP SC	BL	
open lot	B	30	3228	3/11/2014	NDG SC	BL	
open lot	B	31	3230	3/11/2014	DGIP SC	BL	
open lot	B	32	3232	3/11/2014	DGIP SC	BL	
open lot	B	33	3227	3/11/2014	DGIP SC	BL	
open lot	B	34	3224	3/11/2014	NDG SC	BL	
open lot	B	35	3235	3/11/2014	DGIP SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-24	B	34	3265	3/14/2014	NDG SC	BL	
P-24	B	35	3280	3/14/2014	NDG SC	BL	
P-24	B	36	3275	3/14/2014	NDG SC	BL	
P-24	B	37	3285	3/14/2014	NDG SC	BL	
P-24	B	38	3483	3/14/2014	NDG SC	BL	
P-24	B	39	4119	3/14/2014	DGIP SC	BL	
P-24	B	40	4121	3/14/2014	DGIP SC	BL	
P-24	B	41	4123	3/14/2014	NDG SC	BL	
P-25	B	1	3530	3/14/2014	NDG SC	BL	
P-25	B	2	3507	3/14/2014	NDG SC	BL	
P-25	B	3	3490	3/14/2014	NDG SC	BL	
P-26	B	4	3480	3/17/2014	NDG SC	BL	
P-26	B	5	3482	3/17/2014	DGIP SC	BL	
P-27	B	6	3481	3/17/2014	NDG SC	BL	
P-29	T	1	SDT 1	3/17/2014	SC	BL	
P-29	T	2	SDT 2	3/17/2014	SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-31	B	1	4356	3/17/2014	NDG SC	BL	
P-31	B	2	4357	3/17/2014	NDG SC	BL	
P-31	B	3	4279	3/17/2014	NDG SC	BL	
P-31	B	18A	4273	3/17/2014	NDG SC	BL	
P-31	B	17A	4272	3/17/2014	NDG SC	BL	
P-31	B	21	4183	3/17/2014	NDG SC	BL	
P-31	B	20	4157	3/17/2014	NDG SC	BL	
P-31	B	17	4267	3/17/2014	NDG SC	BL	
P-31	B	18	4268	3/17/2014	NDG SC	BL	
P-31	B	19	4269	3/17/2014	NDG SC	BL	
P-31	B	22	4270	3/17/2014	NDG SC	BL	
P-32	B	25	4271	3/18/2014	NDG SC	BL	
P-32	B	19	4274	3/18/2014	NDG SC	BL	
P-32	B	6	4275	3/18/2014	NDG SC	BL	
P-32	B	5	4276	3/18/2014	NDG SC	BL	
P-32	B	4	4277	3/18/2014	NDG SC	BL	
P-32	B	7	4280	3/18/2014	NDG SC	BL	
P-32	B	16	4256	3/18/2014	NDG SC	BL	
P-32	T	1	SDT 4288	3/18/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	1	SDT 4284	3/18/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 24300	3/18/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4301	3/18/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4296	3/18/2014	Covered	BL	Should be on a regular maintenance program related to cleaning

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-32	T	3	SDT 4258	3/18/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4259	3/18/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4253	3/18/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-33	B	16	4360	3/18/2014	DGIP SC	BL	
P-33	B	27	4361	3/18/2014	NDG SC	BL	
P-33	B	15	4362	3/18/2014	NDG SC	BL	
P-33	B	1	4370	3/18/2014	NDG SC	BL	
P-33	B	3	4375	3/18/2014	NDG SC	BL	
P-33	B	2	4382	3/18/2014	NDG SC	BL	
P-33	B	13	4385	3/18/2014	NDG SC	BL	
P-33	B	11	4390	3/18/2014	NDG SC	BL	
P-33	B	12	4395	3/18/2014	NDG SC	BL	
P-33	B	14	4364	3/18/2014	NDG SC	BL	
P-33	B	13	4368	3/18/2014	NDG SC	BL	
P-33	B	21	4454	3/18/2014	Covered	BL	No drain as metal cover
P-33	B	20	4458	3/18/2014	NDG SC	BL	
P-33	B	4	4460	3/18/2014	NDG SC	BL	
P-33	B	15	4465	3/18/2014	NDG SC	BL	
P-34	B	1	4491	3/18/2014	NDG SC	BL	
P-34	B	2	4495	3/18/2014	NDG SC	BL	
P-34	B	3	4499	3/18/2014	NDG SC	BL	
P-34	B	4	4503	3/18/2014	NDG SC	BL	
P-34	B	5	4507	3/18/2014	NDG SC	BL	
P-34	B	6	4511	3/18/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-35	B	1	4512	3/18/2014	Covered	BL	In UH construction site
P-35	B	2	4513	3/18/2014	Covered	BL	In UH construction site
P-35	B	3	4514	3/18/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-39/40	B	1	5721	3/4/2014	NC	PS	Curb Drain
P-39/40	B	2	5570	3/4/2014	NC	PS	Curb Drain
P-39/40	B	3	5550	3/4/2014	NDG NC	PS	
P-39/40	B	4	5551	3/4/2014	NC	PS	
P-39/40	B	5	5552	3/4/2014	NC	PS	
P-39/40	B	6	5553	3/4/2014	NC	PS	MH
P-39/40	B	7	5554	3/4/2014	NC	PS	
P-39/40	B	8	None	3/4/2014	NC	PS	Steel Plate Covering
P-39/40	B	9	None	3/4/2014	NC	PS	MH
P-39/40	B	10a	None	3/4/2014	NC	PS	
P-39/40	B	11	5931	3/4/2014	NC	PS	
P-39/40	B	12	5930	3/4/2014	NC	PS	
P-39/40	B	13	5720	3/4/2014	NC	PS	
P-39/40	B	14	None	3/4/2014	NC	PS	MH
P-39/40	TD	1	None	3/4/2014	NC	PS	
P-41	B	1	None	3/4/2014	NC	PS	
P-41	B	2	None	3/4/2014	NC	PS	
P-41	B	3	None	3/4/2014	NC	PS	
P-41	B	4	None	3/4/2014	NC	PS	
P-41	B	5	None	3/4/2014	NC	PS	
P-41	B	6	None	3/4/2014	NC	PS	
P-41	B	7	None	3/4/2014	NC	PS	
P-41	B	8	None	3/4/2014	NC	PS	
P-41	B	9	None	3/4/2014	NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-41	B	10	None	3/4/2014	NC	PS	
P-41	B	11	None	3/4/2014	NC	PS	
P-41	B	12	None	3/4/2014	NC	PS	
P-41	B	13	None	3/4/2014	NC	PS	
						PS	
P-42	B	1	None	3/4/2014	NC	PS	
P-42	B	2	None	3/4/2014	NC	PS	
P-42	B	3	None	3/4/2014	NC	PS	
P-42	B	4	None	3/4/2014	NC	PS	
P-42	B	5	None	3/4/2014	NC	PS	
P-42	B	6	None	3/4/2014	NC	PS	
P-42	B	7	None	3/4/2014	NC	PS	
P-42	B	8	None	3/4/2014	NC	PS	
P-42	B	9	None	3/4/2014	NC	PS	
P-42	B	10	None	3/4/2014	NC	PS	
KMR	B	1	None	03/03/14	NDG NC	PS	
KMR	B	2	None	03/03/14	NDG NC	PS	
KMR	B	3	None	03/03/14	NC	PS	
KMR	B	4	None	03/03/14	NDG NC	PS	
KMR	B	5	None	03/03/14	NDG NC	PS	
KMR	B	6	None	03/03/14	NDG NC	PS	Inside Dept. of Ag Fenced Area
KMR	B	7	None	03/03/14	NDG NC	PS	Inside Dept. of Ag Fenced Area
KMR	B	8	None	03/03/14	NDG NC	PS	Inside Dept. of Ag Fenced Area
KMR	B	9	None	03/03/14	NDG NC	PS	Inside Dept. of Ag Fenced Area
KMR	B	10	None	03/03/14	NDG NC	PS	Inside Dept. of Ag Fenced Area

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
KMR	B	11	None	03/03/14	NC	PS	Cleaned 9/18/13
KMR	B	12	None	03/03/14	NC	PS	Cleaned 9/18/13
KMR	B	13	None	03/03/14	NDG NC	PS	Steel plate covering drain: Area Survey 1/7/14 (Cleaned 1/14/14)
KMR	B	14	None	03/03/14	NDG NC	PS	
KMR	B	15	None	03/03/14	NC	PS	Cleaned 10/15/13
KMR	B	16	None	03/03/14	NDG NC	PS	
KMR	B	17	None	03/03/14	NDG NC	PS	
KMR	B	18	None	03/03/14	NDG NC	PS	
KMR	B	19	None	03/03/14	NDG NC	PS	
KMR	B	20	None	03/03/14	NDG NC	PS	
KMR	B	21	None	03/03/14	NDG NC	PS	
KMR	B	22	None	03/03/14	NDG NC	PS	
KMR	B	23	None	03/03/14	NDG NC	PS	
KMR	B	24	None	03/03/14	NDG NC	PS	Containment boom around drain: witches hat half torn: Cleaned 11/7/13
KMR	B	25	None	03/03/14	NDG NC	PS	
KMR	B	26	None	03/03/14	NDG NC	PS	
KMR	B	27	None	03/03/14	CF	PS	Area fenced in-PCS Yard
KMR	B	28	None	03/03/14	IC	PS	Area Survey - 3/3/14 - IC unknown foreign object plugging opening
KMR	B	29	None	03/03/14	NC	PS	
KMR	B	30	None	03/03/14	NC	PS	
KMR	B	31	None	03/03/14	NC	PS	
KMR	B	32	None	03/03/14	NC	PS	
KMR	B	33	None	03/03/14	NC	PS	
KMR	B	34	None	03/03/14	NC	PS	Area Survey-11/22/13-IC; 11/25/13 HAR-EE confirmed drain cleaned by tenant.
KMR	B	35	None	03/03/14	NC	PS	Steel Plate Covering

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3d/2	3/7/2014	NDG NC	BB/PS	
P-51A	B		3c/35	3/7/2014	NDG NC	BB/PS	
P-51A	B		3e/1	3/7/2014	NDG NC	BB/PS	
P-51B	B		3-Apr	3/13/2014	NDG NC	BB/PS	
P-51B	B		4a/4	3/13/2014	NDG NC	BB/PS	
P-51B	B		5	3/13/2014	NDG NC	BB/PS	
P-51B	B		b54/3	3/13/2014	NDG NC	BB/PS	
P-51B	B		B53	3/13/2014	NDG NC	BB/PS	
P-51B	B		B52	3/13/2014	NDG NC	BB/PS	
P-51B	B		B51/11	3/13/2014	NDG NC	BB/PS	
P-51B	B		5/38	3/7/2014	NDG NC	BB/PS	
P-51B	B		5a/38	3/18/2014	NDG NC	BB/PS	Under Containers
P-51B	B		B42	3/13/2014	NDG NC	BB/PS	
P-51C	B		B41/4	3/13/2014	NDG NC	BB/PS	
P-51C	B		B31/6	3/18/2014	CF	BB/PS	Under Containers
P-51C	B		B9/7	3/18/2014	CF	BB/PS	Under Containers
P-51C	B		B10	3/13/2014	NDG NC	BB/PS	Under Containers
P-51C	B		B12	3/13/2014	NDG NC	BB/PS	
P-51C	B		B35/11	3/18/2014	CF	BB/PS	Under Containers
P-52	B		B36	3/18/2014	CF	BB/PS	Under Containers
P-51	B		1m	3/12/2014	CF	BB/PS	Under Containers
P-51B	B		1L/8	3/12/2014	CF	BB/PS	Under Containers
P-51B	B		1K/8	3/12/2014	CF	BB/PS	Under Containers
P-51B	B		1J7	3/12/2014	CF	BB/PS	Under Containers
P-51A	B		1n/9	3/12/2014	CF	BB/PS	Under Containers

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3b/36	3/7/2014	NDG NC	BB/PS	
P-51A	B		3a/34	3/7/2014	NDG NC	BB/PS	
P-51A	B		3/33	3/7/2014	NDG NC	BB/PS	
P-51A	B		1z/32	3/12/2014	CF	BB/PS	Under Containers
P-51A	B		1x30	3/12/2014	CF	BB/PS	Under Containers
P-51A	B		1y31	3/12/2014	CF	BB/PS	Under Containers
P-51A	B		1w/29	3/7/2014	IC	BB/PS	Area Survey-3/7/14
P-51A	B		1v/28	3/7/2014	CF	BB/PS	Under Containers
P-51A	B		1u27	3/7/2014	NDG NC	BB/PS	
P-51A	B		1t/26	3/7/2014	NC	BB/PS	
P-51A	B		1r7	3/7/2014	NDG NC	BB/PS	
P-51A	B		1s/24	3/7/2014	NDG NC	BB/PS	
P-51A	B		2b	3/7/2014	NDG NC	BB/PS	
P-51A	B		2d/38	3/7/2014	NDG NC	BB/PS	
P-51A	B		2c/37	3/7/2014	NDG NC	BB/PS	
P-51A	B		2a/22	3/7/2014	NDG NC	BB/PS	
P-51	B		1aa	3/7/2014	CF	BB/PS	Under Containers
P-51	B		1bb/21	3/7/2014	NC	BB/PS	
P-51	B		1p/15	3/7/2014	NDG NC	BB/PS	
P-51	B		1q	3/7/2014	NC	BB/PS	
P-51	B		1H1/17	3/7/2014	NDG NC	BB/PS	
P-51	B		H2/20	3/7/2014	NC	BB/PS	
P-51B	B		1f/11	3/7/2014	NDG NC	BB/PS	
P-51B	B		1c	3/7/2014	NDG NC	BB/PS	
P-51B	B		1e	3/7/2014	NC	BB/PS	
P-51B	B		1d	3/7/2014	NC	BB/PS	
P-51B	B		1c/16	3/7/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51B	B		1b/15	3/7/2014	NDG NC	BB/PS	
P-51B	B		A4/16	3/11/2014	NDG NC	BB/PS	
P-51B	B		A10	3/11/2014	NDG NC	BB/PS	
P-51B	B		A11	3/11/2014	NDG NC	BB/PS	
P-51B	B		A6	3/18/2014	CF	BB/PS	Under Containers
P-51B	B		1i/17	3/18/2014	NDG NC	BB/PS	
P-51B	B		A7/18	3/18/2014	CF	BB/PS	Under Containers
P-51B	B		A8/19	3/18/2014	CF	BB/PS	Under Containers
P-51B	B		B20/20	3/18/2014	CF	BB/PS	Under Containers
P-51B	B		B4	3/11/2014	NDG NC	BB/PS	
P-51B	B		B6	3/18/2014	NDG IC	BB/PS	Area Survey-1/24/14; Cleaned 3/11/14
P-52	B		B25	3/18/2014	CF	BB/PS	Area Survey-11/15/13; Area Under Constuction per OCG 3/3/14
P-52	B		EXTRA	3/13/2014	CF	BB/PS	Under Containers
P-52	B		EXTRA	3/13/2014	CF	BB/PS	Under Containers
P-52	B		EXTRA	3/13/2014	CF	BB/PS	Under Containers
P-52	B		E80/50	3/11/2014	NDG NC	BB/PS	
P-52	B		E95	3/11/2014	NDG NC	BB/PS	
P-52	B		E94	3/11/2014	NDG NC	BB/PS	
P-52	B		E81/49	3/11/2014	NDG NC	BB/PS	
P-52	B		E82/48	3/11/2014	NDG NC	BB/PS	
P-52	B		E83/47	3/11/2014	NDG NC	BB/PS	
P-52	B		E91	3/11/2014	NDG NC	BB/PS	
P-52	B		E92	3/11/2014	NDG NC	BB/PS	
P-52	B		E93	3/11/2014	NDF NC	BB/PS	
P-52	B		E84/46	3/11/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52	B		E101	3/11/2014	NDG NC	BB/PS	Employee Parking Lot
P-52	B		E102	3/11/2014	NDG NC	BB/PS	Employee Parking Lot
P-52	B		E103	3/11/2014	NDG NC	BB/PS	Employee Parking Lot
P-52	B		143	3/11/2014	NDG NC	BB/PS	
P-52	B		E86/42	3/11/2014	NDG NC	BB/PS	
P-52	B		E87/41	3/11/2014	NDG NC	BB/PS	
P-52	B		E88/40	3/11/2014	NDG NC	BB/PS	
P-52	B		E62/37	3/18/2014	CF	BB/PS	Under Containers
P-52	B		E63/36	3/18/2014	CF	BB/PS	Under Containers
P-52	B		E10/35	3/11/2014	NDG NC	BB/PS	
P-52	B		E65/34	3/11/2014	NDG NC	BB/PS	
P-52	B		E66/33	3/11/2014	NDG NC	BB/PS	
P-52	B		E68	3/11/2014	CF	BB/PS	Under Containers
P-52	B		E51	3/11/2014	NDG NC	BB/PS	
P-52	B		52/29	3/11/2014	NDG NC	BB/PS	
P-52	B		E51/28	3/11/2014	NDG NC	BB/PS	
P-52	B		E54A/27	3/11/2014	NDG NC	BB/PS	
P-52	B		E54/26	3/11/2014	NDG NC	BB/PS	
P-52	B		56/25	3/11/2014	NDG NC	BB/PS	
P-53	B		E89/39	3/11/2014	NDG NC	BB/PS	
P-53	B		F8/31	3/11/2014	NDG NC	BB/PS	
P-53	B		F6/21	3/11/2014	NDG NC	BB/PS	
P-53	B		F7/24	3/11/2014	NDG IC	BB/PS	Area Survey 03/11/2014
P-53	B		F2/23	3/11/2014	NDG NC	BB/PS	
P-53	B		F4/2	3/11/2014	NDG NC	BB/PS	
P-52/53	T	1		3/11/2014	NDG IC	BB/PS	350' Mark-Rubbish, Silt-Area Survey 1/14/14
P-52/53	T	2		3/11/2014	NDG-3	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52/53	T	3		3/11/2014	NDG-3	BB/PS	
P-52/53	T	4		11-Mar	NDG-3	BB/PS	RB-Repair grating Stalls, #11,13,15,33,60 & Roadway between C12-B11
P-52/53	T	5		3/11/2014	NDG-4	BB/PS	RB-IC Stall #12,13, repair grating stalls #12,20,22,25,30,31,33
P-52/53	T	6		3/11/2014	NDG-4	BB/PS	RB-IC stall #28,repair grating Stall #29,32, roadway between D19 & B5
P-52/53	T	7		3/11/2014	SC	BB/PS	Some areas need cleaning-Under Chassis's-Cleaned 1/14/14
P-52/53	T	8		3/11/2014	NDG NC	BB/PS	RB-Area Survey-IC-11/15/13-Serviced 12/17/13
P-52/53	T	9		3/11/2014	NDG-3	BB/PS	
P-52/53	T	10		3/11/2014	NDG-3	BB/PS	
P-52/53	T	11		3/12/2014	NDG NC	BB/PS	
P-51	T	12		3/7/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-1	B	1	0316	5/15/2014	3 NDG	MG	
P-1	B	2	0336	5/15/2014	3 NDG	MG	
P-1	B	3	0346	5/15/2014	3 NDG	MG	
P-1	B	4	0366	5/15/2014	CF	MG	Under Container
P-1	B	5	0367	5/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	6	0375	5/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	7	0385	5/15/2014	1 DGIP NC	MG	
P-1	B	8	0395	5/15/2014	1 DGIP NC	MG	
P-1	B	9	0055	5/15/2014	3 NDG SC	MG	
P-1	B	10	0035	5/15/2014	3 NDG SC	MG	
P-1	B	11	0015	5/15/2014	3 NDG SC	MG	
P-1	B	12	0045	5/15/2014	3 NDG SC	MG	
P-1	B	13	0248	5/15/2014	MH	MG	MAN HOLE COVER
P-1	B	14	0365	5/15/2014	SWD	MG	STORM DRAIN COVER
P-1	B	15	0085	5/15/2014	1 SC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-2	B	1	0195	5/15/2014	2 NGC SC	MG	
P-2	B	2	0662	5/15/2014	MH	MG	
P-2	B	3	0065	5/15/2014	3 NDG SC	MG	
P-2	T	1	440'	5/15/2014	2 NC	MG	
P-2			0778	5/16/2014	CB	MG	Entrance to Channel Street
P-2			0774	5/16/2014	CB	MG	Entrance to Channel Street
P-2			0696	5/16/2014	CB	MG	Entrance to Channel Street
P-2			0692	5/16/2014	CB	MG	Entrance to Channel Street
P-2			0688	5/16/2014	CB	MG	Street Storm Drain, Entrance to Channel St. - Area Survey 5/17/14
P-2			0683	5/16/2014	CB	MG	Street Storm Drain, Entrance to Channel St. - Area Survey 5/17/14
P-2			0678	5/16/2014	CB	MG	Street Storm Drain, Entrance to Channel St.
P-2			0672	5/16/2014	CB	MG	Street Storm Drain, Entrance to Channel St.
P-2			0665	5/16/2014	MH	MG	
P-2			0728	5/16/2014	3 NDG SC	MG	Clean/Replace Catchment, FTZ wall (mauka) - Area Survey 5/17/14
P-2			0724	5/16/2014	3 NDG SC	MG	Clean/Replace Catchment, FTZ wall (mauka) - Area Survey 5/17/14
P-2			0722	5/16/2014	3 NDG SC	MG	Clean/Replace Catchment, FTZ wall (mauka) - Area Survey 5/17/14
P-2			0656	5/16/2014	3 NDG SC	MG	Clean/Replace Catchment, FTZ wall (mauka) - Area Survey 5/17/14
P-2			0657	5/16/2014	3 NDG SC	MG	Clean/Replace Catchment, FTZ wall (mauka) - Area Survey 5/17/14

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-10	B	1	1314	5/15/2014	NC	MG	
P-11 SHED	SWD	1	None	5/15/2014	NC	MG	
P-11 SHED	SWD	2	None	5/15/2014	NC	MG	
P-11 SHED	SWD	3	None	5/15/2014	NC	MG	
P-11 SHED	SWD	4	None	5/15/2014	NC	MG	
P-11 ADM.	SWD	1	None	5/15/2014	SC	MG	
P-11 ADM.	SWD	2	None	5/15/2014	SC	MG	
P-11 ADM.	SWD	3	None	5/15/2014	SC	MG	
P-11 ADM.	SWD	4	None	5/15/2014	SC	MG	
P-11 ADM.	SWD	5	None	5/15/2014	SC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-18	B	1	2693	5/21/2014	2 NC	MG	
P-18	B	2	2695	5/21/2014	2 NC	MG	
P-18	B	3	2697	5/21/2014	2 NC	MG	
P-18	B	4	2699	5/21/2014	2 NC	MG	
P-18	B	5	2701	5/21/2014	2 NC	MG	
P-18	B	6	2703	5/21/2014	2 NC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-19	B	1	2730	5/21/2014	NDG SC	BL	
P-19	B	2	2728	5/21/2014	NDG SC	BL	
P-19	B	3	2726	5/21/2014	DGIP SC	BL	
P-19	B	4	2724	5/21/2014	DGIP SC	BL	
P-19	B	5	2722	5/21/2014	DGIP SC	BL	
P-19	B	6	2727	5/21/2014	NDG SC	BL	
P-19	B	7	SDI ?	5/21/2014	MH	BL	Manhole not able to view
P-19	B	8	3231	5/21/2014	NDG SC	BL	
Super Ferry	B	9	2827	5/21/2014	NDG SC	BL	
" "	B	10	2828	5/21/2014	NDG SC	BL	
" "	B	11	2826	5/21/2014	NDG SC	BL	
" "	B	12	2830	5/21/2014	NDG SC	BL	
" "	B	13	2829	5/21/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-20 yd.	B	14	2896	5/21/2014	NDG SC	BL	
P-20 yd.	B	15	2831	5/21/2014	NDG SC	BL	
P-20 yd.	B	16	2895	5/21/2014	NDG SC	BL	
P-20 yd.	B	17	2897	5/21/2014	NDG SC	BL	
P-20 yd.	culvert	18	2880	5/21/2014	NC	BL	
P-20 yd.	culvert	19	2881	5/21/2014	NC	BL	
P-21	B	1	2985	5/16/2014	NDG	BL	
P-21	B	2	2950	5/16/2014	DGIP SC	BL	
Whse 6	Roadwy-B	3	3172	5/16/2014	DGIP SC	BL	
Whse 6	Roadwy-B	4	3174	5/16/2014	DGIP SC	BL	
Whse 6	Roadwy-B	5	3175	5/16/2014	NDG SC	BL	
Whse 6	Roadwy-B	6	3173	5/16/2014	DGIP SC	BL	
Whse 6	Roadwy-B	7	3176	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	8	3177	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	9	3178	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	10	3179	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	11	3180	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	12	3181	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	13	3183	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	14	3182	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	15	3184	5/16/2014	NDG NC	BL	
Whse 6	Roadwy-B	16	3185	5/16/2014	NDG NC	BL	
Whse 8	Roadwy-B	17	3192	5/16/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-22	B	1	3169	5/21/2014	DGIP SC	BL	
P-22	B	2	3170	5/21/2014	NDG SC	BL	
P-22	B	3	3171	5/21/2014	NDG SC	BL	
P-23	B	20	3193	5/21/2014	NDG SC	BL	
P-23	B	21	3250	5/21/2014	NDG SC	BL	
P-23	B	22	3210	5/21/2014	NDG SC	BL	
P-23	B	23	3212	5/21/2014	NDG SC	BL	
P-23	B	24	3213	5/21/2014	NDG SC	BL	
P-23	B	25	3295	5/21/2014	NDG SC	BL	
P-23	B	26	3187	5/21/2014	NDG SC	BL	
P-23	B	27	3188	5/21/2014	NDG SC	BL	
P-23	B	28	3186	5/21/2014	NDG SC	BL	
open lot	B	29	3229	5/16/2014	DGIP IC	BL	Area survey 5/16/14
open lot	B	30	3228	5/16/2014	DGIP SC	BL	
open lot	B	31	3230	5/16/2014	DGIP IC	BL	Area survey 5/16/14
open lot	B	32	3232	5/16/2014	DGIP IC	BL	Area survey 5/16/14
open lot	B	33	3227	5/16/2014	DGIP IC	BL	Area survey 5/16/14
open lot	B	34	3224	5/16/2014	NDG SC	BL	
open lot	B	35	3235	5/16/2014	DGIP SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-24	B	34	3265	5/2/2014	NDG SC	BL	
P-24	B	35	3280	5/2/2014	NDG SC	BL	
P-24	B	36	3275	5/2/2014	NDG SC	BL	
P-24	B	37	3285	5/2/2014	NDG SC	BL	
P-24	B	38	3483	5/2/2014	NDG SC	BL	
P-24	B	39	4119	5/2/2014	DGIP SC	BL	
P-24	B	40	4121	5/2/2014	DGIP SC	BL	
P-24	B	41	4123	5/2/2014	NDG SC	BL	
P-25	B	1	3530	5/2/2014	NDG SC	BL	
P-25	B	2	3507	5/2/2014	NDG SC	BL	
P-25	B	3	3490	5/6/2014	NDG SC	BL	
P-26	B	4	3480	5/6/2014	NDG SC	BL	
P-26	B	5	3482	5/6/2014	DGIP SC	BL	
P-27	B	6	3481	5/6/2014	NDG SC	BL	
P-29	T	1	SDT 1	5/6/2014	SC	BL	
P-29	T	2	SDT 2	5/6/2014	SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-31	B	1	4356	5/9/2014	NDG SC	BL	
P-31	B	2	4357	5/9/2014	NDG SC	BL	
P-31	B	3	4279	5/9/2014	NDG SC	BL	
P-31	B	18A	4273	5/9/2014	NDG SC	BL	
P-31	B	17A	4272	5/9/2014	NDG SC	BL	
P-31	B	21	4183	5/9/2014	NDG SC	BL	
P-31	B	20	4157	5/9/2014	NDG SC	BL	
P-31	B	17	4267	5/9/2014	NDG SC	BL	
P-31	B	18	4268	5/9/2014	NDG SC	BL	
P-31	B	19	4269	5/9/2014	NDG SC	BL	
P-31	B	22	4270	5/9/2014	NDG SC	BL	
P-32	B	25	4271	5/13/2014	NDG SC	BL	
P-32	B	19	4274	5/13/2014	NDG SC	BL	
P-32	B	6	4275	5/13/2014	NDG SC	BL	
P-32	B	5	4276	5/13/2014	NDG SC	BL	
P-32	B	4	4277	5/13/2014	NDG SC	BL	
P-32	B	7	4280	5/13/2014	NDG SC	BL	
P-32	B	16	4256	5/13/2014	NDG SC	BL	
P-32	T	1	SDT 4288	5/13/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	1	SDT 4284	5/13/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 24300	5/13/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4301	5/13/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4296	5/13/2014	Covered	BL	Should be on a regular maintenance program related to cleaning

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-32	T	3	SDT 4258	5/13/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4259	5/13/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4253	5/13/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-33	B	16	4360	5/15/2014	DGIP SC	BL	
P-33	B	27	4361	5/15/2014	NDG SC	BL	
P-33	B	15	4362	5/15/2014	NDG SC	BL	
P-33	B	1	4370	5/15/2014	NDG SC	BL	
P-33	B	3	4375	5/15/2014	NDG SC	BL	
P-33	B	2	4382	5/15/2014	NDG SC	BL	
P-33	B	13	4385	5/15/2014	NDG SC	BL	
P-33	B	11	4390	5/15/2014	NDG SC	BL	
P-33	B	12	4395	5/15/2014	NDG SC	BL	
P-33	B	14	4364	5/15/2014	NDG SC	BL	
P-33	B	13	4368	5/15/2014	NDG SC	BL	
P-33	B	21	4454	5/15/2014	Covered	BL	No drain as metal cover
P-33	B	20	4458	5/15/2014	NDG SC	BL	
P-33	B	4	4460	5/15/2014	NDG SC	BL	
P-33	B	15	4465	5/15/2014	NDG SC	BL	
P-34	B	1	4491	5/15/2014	NDG SC	BL	
P-34	B	2	4495	5/15/2014	NDG SC	BL	
P-34	B	3	4499	5/15/2014	NDG SC	BL	
P-34	B	4	4503	5/15/2014	NDG SC	BL	
P-34	B	5	4507	5/15/2014	NDG SC	BL	
P-34	B	6	4511	5/15/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-35	B	1	4512	5/15/2014	Covered	BL	In UH construction site
P-35	B	2	4513	5/15/2014	Covered	BL	In UH construction site
P-35	B	3	4514	5/15/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-39/40	B	1	5721	05/18/14	NC	PS	Curb Drain
P-39/40	B	2	5570	05/18/14	NC	PS	Curb Drain
P-39/40	B	3	5550	05/18/14	IC	PS	Area Survey 5/18/14
P-39/40	B	4	5551	05/18/14	IC	PS	Area Survey 5/18/14
P-39/40	B	5	5552	05/18/14	NDG NC	PS	
P-39/40	B	6	5553	05/18/14	IC	PS	Area Survey 5/18/14
P-39/40	B	7	5554	05/18/14	NC	PS	MH
P-39/40	B	8	None	05/18/14	NC	PS	Steel Plate Covering
P-39/40	B	9	None	05/18/14	NC	PS	MH
P-39/40	B	10a	None	05/18/14	NC	PS	
P-39/40	B	11	5931	05/18/14	NDG NC	PS	Between admin and credit union buildings
P-39/40	B	12	5930	05/18/14	NC	PS	
P-39/40	B	13	5720	05/18/14	NC	PS	
P-39/40	B	14	None	05/18/14	NC	PS	3- MH
P-39/40	TD	1	None	05/18/14	NC	PS	
P-41	B	1	None	05/18/14	NC	PS	
P-41	B	2	None	05/18/14	NC	PS	
P-41	B	3	None	05/18/14	NC	PS	
P-41	B	4	None	05/18/14	NC	PS	
P-41	B	5	None	05/18/14	NC	PS	
P-41	B	6	None	05/18/14	NC	PS	
P-41	B	7	None	05/18/14	NC	PS	
P-41	B	8	None	05/18/14	NC	PS	
P-41	B	9	None	05/18/14	NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-41	B	10	None	05/18/14	NC	PS	
P-41	B	11	None	05/18/14	NC	PS	
P-41	B	12	None	05/18/14	NC	PS	
P-41	B	13	None	05/18/14	NC	PS	
P-42	B	1	None	05/18/14	NC	PS	
P-42	B	2	None	05/18/14	NC	PS	
P-42	B	3	None	05/18/14	NC	PS	
P-42	B	4	None	05/18/14	NC	PS	
P-42	B	5	None	05/18/14	NC	PS	
P-42	B	6	None	05/18/14	NC	PS	
P-42	B	7	None	05/18/14	NC	PS	
P-42	B	8	None	05/18/14	NC	PS	
P-42	B	9	None	05/18/14	NC	PS	
P-42	B	10	None	05/18/14	NC	PS	
KMR	B	1	None	05/09/14	NDG NC	BB	
KMR	B	2	None	05/09/14	NDG NC	BB	
KMR	B	3	None	05/09/14	NC	BB	
KMR	B	4	None	05/09/14	NDG NC	BB	
KMR	B	5	None	05/09/14	NDG NC	BB	
KMR	B	6	None	05/09/14	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	7	None	05/09/14	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	8	None	05/09/14	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	9	None	05/09/14	NDG NC	BB	Inside Dept. of Ag Fenced Area
KMR	B	10	None	05/09/14	NDG NC	BB	Inside Dept. of Ag Fenced Area

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
KMR	B	11	None	05/09/14	NC	BB	**Cleaned 9/18/13**
KMR	B	12	None	05/09/14	NC	BB	**Cleaned 9/18/13**
KMR	B	13	None	05/09/14	NC	BB	Area Survey 1/7/2014 - **Cleaned 1/14/14**-Steel Plate covering
KMR	B	14	None	05/09/14	NDG NC	BB	
KMR	B	15	None	05/09/14	NC	BB	**Cleaned 10/15/13**
KMR	B	16	None	05/09/14	NDG NC	BB	
KMR	B	17	None	05/09/14	NDG NC	BB	
KMR	B	18	None	05/09/14	NDG NC	BB	
KMR	B	19	None	05/09/14	NDG NC	BB	
KMR	B	20	None	05/09/14	NDG NC	BB	
KMR	B	21	None	05/09/14	NDG NC	BB	
KMR	B	22	None	05/09/14	NDG NC	BB	
KMR	B	23	None	05/09/14	NDG NC	BB	
KMR	B	24	None	05/09/14	NC	BB	**Cleaned 11/7/13**
KMR	B	25	None	05/09/14	NDG NC	BB	
KMR	B	26	None	05/09/14	NDG NC	BB	
KMR	B	27	None	05/09/14	NDG NC	BB	Area fenced in-PCS Yard
KMR	B	28	None	05/09/14	NC	BB	
KMR	B	29	None	05/09/14	NC	BB	
KMR	B	30	None	05/09/14	NC	BB	
KMR	B	31	None	05/09/14	NC	BB	
KMR	B	32	None	05/09/14	NC	BB	
KMR	B	33	None	05/09/14	NC	BB	
KMR	B	34	None	05/09/14	NC	BB	Area Survey 11/22/13 - **Cleaned 11/25/13**
KMR	B	35	None	05/09/14	NC	BB	Steel Plate Covering

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3d/2	5/11/2014	NDG NC	PS	
P-51A	B		3c/35	5/11/2014	NDG NC	PS	
P-51A	B		3e/1	5/11/2014	NDG NC	PS	(RB) Area Survey-11/15/13-**Cleaned 3/11/14**
P-51B	B		3-Apr	5/11/2014	NDG NC	PS	
P-51B	B		4a/4	5/11/2014	NDG NC	PS	
P-51B	B		5	5/11/2014	NDG NC	PS	
P-51B	B		b54/3	5/11/2014	NDG NC	PS	Fence Line
P-51B	B		B53	5/16/2014	NDG NC	BB	
P-51B	B		B52	5/16/2014	NDG NC	BB	
P-51B	B		B51/11	5/16/2014	NDG NC	BB	
P-51B	B		5/38	5/11/2014	NDG NC	PS	Right Past Clerk Weigh Station
P-51B	B		5a/38	5/11/2014	NC	PS	Next to Matson Lunch Wagon Gate
P-51B	B		B42	5/11/2014	NDG NC	PS	Matson Auto Survey Area
P-51C	B		B41/4	5/11/2014	NDG NC	PS	Matson Black Building Cus. Parking Lot
P-51C	B		B31/6	5/20/2014	NDG NC	BB/PS	
P-51C	B		B9/7	5/20/2014	CF	BB/PS	Under Containers
P-51C	B		B10	5/20/2014	NDG NC	BB/PS	
P-51C	B		B12	5/20/2014	NC	BB/PS	
P-51C	B		B35/11	5/20/2014	CF	BB/PS	Under Containers
P-52	B		B36	5/20/2014	CF	BB/PS	Under Containers
P-51	B		1m	5/11/2014	NDG NC	PS	
P-51B	B		1L/8	5/11/2014	CF	PS	Under Containers
P-51B	B		1K/8	5/11/2014	CF	PS	Under Containers
P-51B	B		1J7	5/11/2014	CF	PS	Under Containers
P-51A	B		1n/9	5/11/2014	CF	PS	Under Containers

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3b/36	5/11/2014	NDG NC	PS	
P-51A	B		3a/34	5/11/2014	NDG NC	PS	
P-51A	B		3/33	5/11/2014	NDG NC	PS	Behind Weigh Station on Sand Island Road
P-51A	B		1z/32	5/11/2014	NDG NC	PS	Reefer Area
P-51A	B		1x30	5/11/2014	NDG NC	PS	Between Rows 210-200,Reefer Area
P-51A	B		1y31	5/11/2014	NC	PS	Makai of Chassis Shop
P-51A	B		1w/29	5/11/2014	NC	PS	Area Survey-3/7/14-**Cleaned 3/11/14**
P-51A	B		1v/28	5/11/2014	NDG NC	PS	Reefer Area
P-51A	B		1u27	5/11/2014	NC	PS	Chassis Shop
P-51A	B		1t/26	5/11/2014	NDG NC	PS	
P-51A	B		1r7	5/11/2014	NDG NC	PS	
P-51A	B		1s/24	5/11/2014	NDG NC	PS	Diamond Head of White Tent
P-51A	B		2b	5/11/2014	CF	PS	Under Containers
P-51A	B		2d/38	5/11/2014	NDG NC	PS	
P-51A	B		2c/37	5/11/2014	NDG NC	PS	
P-51A	B		2a/22	5/11/2014	NC	PS	
P-51	B		1aa	5/11/2014	NDG NC	PS	
P-51	B		1bb/21	5/11/2014	NC	PS	175' Mark Lane 3
P-51	B		1p/15	5/11/2014	NDG NC	PS	
P-51	B		1q	5/11/2014	NC	PS	375' Mark Lane 3
P-51	B		1H1/17	5/11/2014	NC	PS	
P-51	B		H2/20	5/11/2014	NC	PS	575' Mark Lane 3
P-51B	B		1f/11	5/11/2014	NDG NC	PS	
P-51B	B		1c	5/11/2014	NDG NC	PS	1200' Mark Lane 3
P-51B	B		1e	5/11/2014	NC	PS	800' Mark Lane 3
P-51B	B		1d	5/11/2014	NC	PS	975' Mark Lane 3
P-51B	B		1c/16	5/11/2014	NDG NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51B	B		1b/15	5/11/2014	NDG NC	PS	
P-51B	B		A4/16	5/16/2014	NDG NC	BB	
P-51B	B		A10	5/16/2014	NDG NC	BB	
P-51B	B		A11	5/16/2014	NDG NC	BB	
P-51B	B		A6	5/20/2014	CF	BB/PS	Under Containers
P-51B	B		1i/17	5/11/2014	CF	BB/PS	Under Containers
P-51B	B		A7/18	5/20/2014	NDG NC	BB/PS	
P-51B	B		A8/19	5/20/2014	NDG NC	BB/PS	
P-51B	B		B20/20	5/20/2014	NDG NC	BB/PS	
P-51B	B		B4	5/16/2014	NDG NC	BB	
P-51B	B		B6	5/16/2014	NDG NC	BB	Area Survey-1/24/14-**Cleaned 3/11/14**
P-52	B		B25	5/20/2014	CF	BB/PS	Area Survey-11/15/13; **Area Under Contruction per OCG 3/3/14**
P-52	B		E80/50	5/14/2014	NC	BB/PS	
P-52	B		E95	5/16/2014	NDG NC	BB	
P-52	B		E94	5/16/2014	NDG NC	BB	
P-52	B		E81/49	5/14/2014	NC	BB/PS	
P-52	B		E82/48	5/14/2014	NDG NC	BB/PS	
P-52	B		E83/47	5/14/2014	NDG NC	BB/PS	
P-52	B		E91	5/1/2014	NDG NC	BB	
P-52	B		E92	5/16/2014	NDG NC	BB	
P-52	B		E93	5/14/2014	NC	BB/PS	
P-52	B		E84/46	5/14/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52	B		E101	5/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E102	5/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E103	5/16/2014	NDG NC	BB	Employee Parking Lot
P-52	B		43	5/14/2014	NDG NC	BB/PS	
P-52	B		E86/42	5/14/2014	NDG NC	BB/PS	
P-52	B		E87/41	5/14/2014	NDG NC	BB/PS	
P-52	B		E88/40	5/14/2014	NDG NC	BB/PS	
P-52	B		E62/37	5/14/2014	NC	BB/PS	Cab Row 523
P-52	B		E63/36	5/14/2014	CF	BB/PS	In chassis area
P-52	B		E10/35	5/14/2014	NDG NC	BB/PS	A26 Row 01
P-52	B		E65/34	5/14/2014	NDG NC	BB/PS	Row 03 A26
P-52	B		E66/33	5/14/2014	NDG NC	BB/PS	Row 66 A26
P-52	B		E68	5/14/2014	CF	BB/PS	Under Containers
P-52	B		E51	5/14/2014	NDG NC	BB/PS	
P-52	B		E 52/29	5/14/2014	NDG NC	BB/PS	
P-52	B		E51/28	5/14/2014	NC	BB/PS	
P-52	B		E54A/27	5/14/2014	NDG NC	BB/PS	
P-52	B		E54/26	5/14/2014	NC	BB/PS	
P-52	B		56/25	5/16/2014	NDG NC	BB	
P-53	B		E89/39	5/14/2014	NC	BB/PS	
P-53	B		F8/31	5/16/2014	NDG NC	BB	
P-53	B		F6/21	5/14/2014	NDG NC	BB/PS	
P-53	B		F7/24	5/14/2014	NC	BB/PS	Area Survey 3/1/2014 - **Cleaned and Replaced Filter 3/25/14**
P-53	B		F2/23	5/14/2014	NDG NC	BB/PS	53-3 Light Pole Row 14
P-53	B		F4/2	5/14/2014	NDG NC	BB/PS	
P-52/53	T	1		5/14/2014	NDG NC	BB/PS	350' Mark-Rubbish, Silt-Area Survey 1/14/14-**Cleaned 5/13/14**
P-52/53	T	2		5/14/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52/53	T	3		5/14/2014	NDG NC	BB/PS	
P-52/53	T	4		5/14/2014	NDG NC	BB/PS	(RB)-Repair grating Stalls #11,13,15,33,60 & Roadway between C12-B11
P-52/53	T	5		5/14/2014	NDG NC	BB/PS	Area Survey (RB)-11/15/13-**Cleaned 5/13/14-Stalls #12,14,16**
P-52/53	T	6		5/20/2014	NDG NC	BB/PS	Area Survey (RB)-11/18/13-**Cleaned 3/12/14**
P-52/53	T	7		5/20/2014	NDG IC	BB/PS	Area Survey-5/20/14
P-52/53	T	8		5/16/2014	NDG NC	BB/PS	Area Survey (RB)-11/15/13-**Cleaned 12/17/13**
P-52/53	T	9		5/20/2014	NDG NC	BB/PS	
P-52/53	T	10		5/20/2014	NDG NC	BB/PS	
P-52/53	T	11		5/20/2014	NDG NC	BB/PS	
P-51	T	12		5/11/2014	NDG NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-1	B	1	0316	7/25/2014	3 NDG	MG	
P-1	B	2	0336	7/25/2014	3 NDG	MG	
P-1	B	3	0346	7/25/2014	3 NDG	MG	
P-1	B	4	0366	7/25/2014	CF	MG	Under Container
P-1	B	5	0367	7/25/2014	SWD	MG	STORM DRAIN COVER
P-1	B	6	0375	7/25/2014	SWD	MG	STORM DRAIN COVER
P-1	B	7	0385	7/25/2014	1 DGIP NC	MG	
P-1	B	8	0395	7/25/2014	1 DGIP NC	MG	
P-1	B	9	0055	7/25/2014	3 NDG SC	MG	
P-1	B	10	0035	7/25/2014	3 NDG SC	MG	
P-1	B	11	0015	7/25/2014	3 NDG SC	MG	
P-1	B	12	0045	7/25/2014	3 NDG SC	MG	
P-1	B	13	0248	7/25/2014	MH	MG	MAN HOLE COVER
P-1	B	14	0365	7/25/2014	SWD	MG	STORM DRAIN COVER
P-1	B	15	0085	7/25/2014	1 SC	MG	
P-2	B	1	0195	7/25/2014	2 NGC SC	MG	
P-2	B	2	0662	7/25/2014	MH	MG	
P-2	B	3	0065	7/25/2014	3 NDG SC	MG	
P-2	T	1	440'	7/25/2014	2 NC	MG	
P-2			0778	7/25/2014	CB	MG	
P-2			0774	7/25/2014	CB	MG	
P-2			0696	7/25/2014	CB	MG	
P-2			0692	7/25/2014	CB	MG	
P-2			0688	7/25/2014	CB	MG	Area Survey 5/17/14 - **Cleaned 6/3/2014**
P-2			0683	7/25/2014	CB	MG	Area Survey 5/17/14 - **Cleaned 6/3/2014**
P-2			0678	7/25/2014	CB	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-2			0672	7/25/2014	CB	MG	
P-2			0665	7/25/2014	MH	MG	
P-2			0728	7/25/2014	3 NDG SC	MG	Area Survey 5/17/14 - **Cleaned 6/20/2014**
P-2			0724	7/25/2014	3 NDG SC	MG	Area Survey 5/17/14 - **Cleaned 6/20/2014**
P-2			0722	7/25/2014	3 NDG SC	MG	Area Survey 5/17/14 - **Cleaned 6/20/2014**
P-2			0656	7/25/2014	3 NDG SC	MG	Area Survey 5/17/14 - **Cleaned 6/20/2014**
P-2			0657	7/25/2014	3 NDG SC	MG	Area Survey 5/17/14 - **Cleaned 6/20/2014**

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-10	B	1	1314	7/26/2014	NC	MG	
P-11 SHED	SWD	1	None	7/26/2014	NC	MG	
P-11 SHED	SWD	2	None	7/26/2014	NC	MG	
P-11 SHED	SWD	3	None	7/26/2014	NC	MG	
P-11 SHED	SWD	4	None	7/26/2014	NC	MG	
P-11 ADM.	SWD	1	None	7/26/2014	SC	MG	Area Survey 5/31/14 - **Cleaned 6/4/2014**
P-11 ADM.	SWD	2	None	7/26/2014	SC	MG	Area Survey 5/31/14 - **Cleaned 6/4/2014**
P-11 ADM.	SWD	3	None	7/26/2014	SC	MG	Area Survey 5/31/14 - **Cleaned 6/4/2014**
P-11 ADM.	SWD	4	None	7/26/2014	SC	MG	Area Survey 5/31/14 - **Cleaned 6/4/2014**

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-18	B	1	2693	7/30/2014	4 SC	MG	Area Survey 7/30/14 - **Cleaned 8/5/2014**
P-18	B	2	2695	7/30/2014	4 SC	MG	Area Survey 7/30/14 - **Cleaned 8/5/2014**
P-18	B	3	2697	7/30/2014	2 NC	MG	
P-18	B	4	2699	7/30/2014	2 NC	MG	
P-18	B	5	2701	7/30/2014	2 NC	MG	
P-18	B	6	2703	7/30/2014	2 NC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-19	B	1	2730	7/15/2014	NDG SC	BL	
P-19	B	2	2728	7/15/2014	NDG SC	BL	
P-19	B	3	2726	7/15/2014	DGIP SC	BL	
P-19	B	4	2724	7/15/2014	DGIP SC	BL	
P-19	B	5	2722	7/15/2014	DGIP SC	BL	
P-19	B	6	2727	7/15/2014	NDG SC	BL	
P-19	B	7	SDI ?	7/15/2014	MH	BL	Manhole not able to view
P-19	B	8	3231	7/15/2014	NDG SC	BL	
Super Ferry	B	9	2827	7/15/2014	NDG SC	BL	
" "	B	10	2828	7/15/2014	NDG SC	BL	
" "	B	11	2826	7/15/2014	NDG SC	BL	
" "	B	12	2830	7/15/2014	NDG SC	BL	
" "	B	13	2829	7/15/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-20 yd.	B	14	2896	7/18/2014	NDG SC	BL	
P-20 yd.	B	15	2831	7/18/2014	NDG SC	BL	
P-20 yd.	B	16	2895	7/18/2014	NDG SC	BL	
P-20 yd.	B	17	2897	7/18/2014	NDG SC	BL	
P-20 yd.	culvert	18	2880	7/18/2014	SC	BL	
P-20 yd.	culvert	19	2881	7/18/2014	SC	BL	
P-21	B	1	2985	7/18/2014	NDG SC	BL	
P-21	B	2	2950	7/18/2014	DGIP SC	BL	
Whse 6	Roadwy-B	3	3172	7/22/2014	DGIP SC	BL	
Whse 6	Roadwy-B	4	3174	7/22/2014	DGIP SC	BL	
Whse 6	Roadwy-B	5	3175	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	6	3173	7/22/2014	DGIP SC	BL	
Whse 6	Roadwy-B	7	3176	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	8	3177	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	9	3178	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	10	3179	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	11	3180	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	12	3181	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	13	3183	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	14	3182	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	15	3184	7/22/2014	NDG SC	BL	
Whse 6	Roadwy-B	16	3185	7/22/2014	NDG SC	BL	
Whse 8	Roadwy-B	17	3192	7/22/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-22	B	1	3169	7/24/2014	DGIP SC	BL	
P-22	B	2	3170	7/24/2014	NDG SC	BL	
P-22	B	3	3171	7/24/2014	NDG SC	BL	
P-23	B	20	3193	7/24/2014	NDG SC	BL	
P-23	B	21	3250	7/24/2014	NDG SC	BL	
P-23	B	22	3210	7/24/2014	NDG SC	BL	
P-23	B	23	3212	7/24/2014	NDG SC	BL	
P-23	B	24	3213	7/24/2014	NDG SC	BL	
P-23	B	25	3295	7/24/2014	NDG SC	BL	
P-23	B	26	3187	7/24/2014	NDG SC	BL	
P-23	B	27	3188	7/24/2014	NDG SC	BL	
P-23	B	28	3186	7/24/2014	NDG SC	BL	
open lot	B	29	3229	7/24/2014	DGIP NC	BL	Area survey 5/16/14 - **Cleaned 5/21/14 & 6/19/14**
open lot	B	30	3228	7/24/2014	DGIP SC	BL	
open lot	B	31	3230	7/24/2014	DGIP NC	BL	Area survey 5/16/14 - **Cleaned 5/21/14 & 6/19/14**
open lot	B	32	3232	8/19/2014	DGIP NC	BL	Area survey 5/16/14 - **Cleaned 5/21/14 & 6/19/14**
open lot	B	33	3227	8/19/2014	DGIP NC	BL	Area survey 5/16/14 - **Cleaned 5/21/14 & 6/19/14**
open lot	B	34	3224	7/24/2014	NDG SC	BL	
open lot	B	35	3235	7/24/2014	DGIP SC	BL	**Cleaned 6/19/14**

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-24	B	34	3265	7/3/2014	NDG SC	BL	
P-24	B	35	3280	7/3/2014	NDG SC	BL	
P-24	B	36	3275	7/3/2014	NDG SC	BL	
P-24	B	37	3285	7/3/2014	NDG SC	BL	
P-24	B	38	3483	7/3/2014	NDG SC	BL	
P-24	B	39	4119	7/3/2014	DGIP SC	BL	
P-24	B	40	4121	7/3/2014	DGIP SC	BL	
P-24	B	41	4123	7/3/2014	NDG SC	BL	
P-25	B	1	3530	7/3/2014	NDG SC	BL	
P-25	B	2	3507	7/3/2014	NDG SC	BL	
P-25	B	3	3490	7/3/2014	NDG SC	BL	
P-26	B	4	3480	7/3/2014	NDG SC	BL	
P-26	B	5	3482	7/3/2014	DGIP SC	BL	
P-27	B	6	3481	7/3/2014	NDG SC	BL	
P-29	T	1	SDT 1	7/3/2014	SC	BL	
P-29	T	2	SDT 2	7/3/2014	SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-31	B	1	4356	7/8/2014	NDG SC	BL	
P-31	B	2	4357	7/8/2014	NDG SC	BL	
P-31	B	3	4279	7/8/2014	NDG SC	BL	
P-31	B	18A	4273	7/8/2014	NDG SC	BL	
P-31	B	17A	4272	7/8/2014	NDG SC	BL	
P-31	B	21	4183	7/8/2014	NDG SC	BL	
P-31	B	20	4157	7/8/2014	NDG SC	BL	
P-31	B	17	4267	7/8/2014	NDG SC	BL	
P-31	B	18	4268	7/8/2014	NDG SC	BL	
P-31	B	19	4269	7/8/2014	NDG SC	BL	
P-31	B	22	4270	7/8/2014	NDG SC	BL	
P-32	B	25	4271	7/9/2014	NDG SC	BL	
P-32	B	19	4274	7/9/2014	NDG SC	BL	
P-32	B	6	4275	7/9/2014	NDG SC	BL	
P-32	B	5	4276	7/9/2014	NDG SC	BL	
P-32	B	4	4277	7/9/2014	NDG SC	BL	
P-32	B	7	4280	7/9/2014	NDG SC	BL	
P-32	B	16	4256	7/9/2014	NDG SC	BL	
P-32	T	1	SDT 4288	7/9/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	1	SDT 4284	7/9/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 24300	7/9/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4301	7/9/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4296	7/9/2014	Covered	BL	Should be on a regular maintenance program related to cleaning

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	9-Jul	Comment	Initial	REMARKS
P-32	T	3	SDT 4258	7/9/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4259	7/9/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4253	7/9/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-33	B	16	4360	7/9/2014	DGIP SC	BL	
P-33	B	27	4361	7/9/2014	NDG SC	BL	
P-33	B	15	4362	7/9/2014	NDG SC	BL	
P-33	B	1	4370	7/9/2014	NDG SC	BL	
P-33	B	3	4375	7/9/2014	NDG SC	BL	
P-33	B	2	4382	7/9/2014	NDG SC	BL	
P-33	B	13	4385	7/9/2014	NDG SC	BL	
P-33	B	11	4390	7/9/2014	NDG SC	BL	
P-33	B	12	4395	7/9/2014	NDG SC	BL	
P-33	B	14	4364	7/9/2014	NDG SC	BL	
P-33	B	13	4368	7/9/2014	NDG SC	BL	
P-33	B	21	4454	7/9/2014	Covered	BL	No drain as metal cover
P-33	B	20	4458	7/9/2014	NDG SC	BL	
P-33	B	4	4460	7/9/2014	NDG SC	BL	
P-33	B	15	4465	7/9/2014	NDG SC	BL	
P-34	B	1	4491	7/9/2014	NDG SC	BL	
P-34	B	2	4495	7/9/2014	NDG SC	BL	
P-34	B	3	4499	7/9/2014	NDG SC	BL	
P-34	B	4	4503	7/9/2014	NDG SC	BL	
P-34	B	5	4507	7/9/2014	NDG SC	BL	
P-34	B	6	4511	7/9/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-35	B	1	4512	7/9/2014	Covered	BL	In UH construction site
P-35	B	2	4513	7/9/2014	Covered	BL	In UH construction site
P-35	B	3	4514	7/9/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-39/40	B	1	5721	07/13/14	NC	PS	Curb Drain
P-39/40	B	2	5570	07/13/14	NC	PS	Curb Drain
P-39/40	B	3	5550	07/13/14	IC	PS	Area Survey 5/18/14 (Area survey 7/15/14)
P-39/40	B	4	5551	07/13/14	NDG NC	PS	Area Survey 5/18/14 -**Cleaned 7/11/14**
P-39/40	B	5	5552	07/13/14	NDG NC	PS	
P-39/40	B	6	5553	07/13/14	IC	PS	Area Survey 5/18/14 (Area survey 7/15/14)
P-39/40	B	7	5554	07/13/14	NC	PS	MH
P-39/40	B	8	None	07/13/14	NC	PS	Steel Plate Covering
P-39/40	B	9	None	07/13/14	NC	PS	MH
P-39/40	B	10a	None	07/13/14	NC	PS	
P-39/40	B	11	5931	07/13/14	NDG NC	PS	Between admin and credit union buildings
P-39/40	B	12	5930	07/13/14	NDG NC	PS	
P-39/40	B	13	5720	07/13/14	NDG NC	PS	
P-39/40	B	14	None	07/13/14	NC	PS	3- MH
P-39/40	TD	1	None	07/13/14	NC	PS	
P-41	B	1	None	07/13/14	NC	PS	
P-41	B	2	None	07/13/14	NC	PS	
P-41	B	3	None	07/13/14	NC	PS	
P-41	B	4	None	07/13/14	NC	PS	
P-41	B	5	None	07/13/14	NC	PS	
P-41	B	6	None	07/13/14	NC	PS	
P-41	B	7	None	07/13/14	NC	PS	
P-41	B	8	None	07/13/14	NC	PS	
P-41	B	9	None	07/13/14	NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-41	B	10	None	07/13/14	NC	PS	
P-41	B	11	None	07/13/14	NC	PS	
P-41	B	12	None	07/13/14	NC	PS	
P-41	B	13	None	07/13/14	NC	PS	
P-42	B	1	None	07/13/14	NC	PS	
P-42	B	2	None	07/13/14	NC	PS	
P-42	B	3	None	07/13/14	NC	PS	
P-42	B	4	None	07/13/14	NC	PS	
P-42	B	5	None	07/13/14	NC	PS	
P-42	B	6	None	07/13/14	NC	PS	
P-42	B	7	None	07/13/14	NC	PS	
P-42	B	8	None	07/13/14	NC	PS	
P-42	B	9	None	07/13/14	NC	PS	
P-42	B	10	None	07/13/14	NC	PS	
KMR	B	1	None		NDG NC		Closed for Demolition
KMR	B	2	None		NDG NC		"
KMR	B	3	None		NC		"
KMR	B	4	None		NDG NC		"
KMR	B	5	None		NDG NC		"
KMR	B	6	None		NDG NC		Inside Dept. of Ag Fenced Area
KMR	B	7	None		NDG NC		Inside Dept. of Ag Fenced Area
KMR	B	8	None		NDG NC		Inside Dept. of Ag Fenced Area
KMR	B	9	None		NDG NC		Inside Dept. of Ag Fenced Area
KMR	B	10	None		NDG NC		Inside Dept. of Ag Fenced Area

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
KMR	B	11	None		NC		Closed for Demolition
KMR	B	12	None		NC		"
KMR	B	13	None		NC		"
KMR	B	14	None		NDG NC		"
KMR	B	15	None		NC		"
KMR	B	16	None		NDG NC		"
KMR	B	17	None		NDG NC		"
KMR	B	18	None		NDG NC		"
KMR	B	19	None		NDG NC		"
KMR	B	20	None		NDG NC		"
KMR	B	21	None		NDG NC		"
KMR	B	22	None		NDG NC		"
KMR	B	23	None		NDG NC		"
KMR	B	24	None		NC		"
KMR	B	25	None		NDG NC		"
KMR	B	26	None		NDG NC		"
KMR	B	27	None		NDG NC		"
KMR	B	28	None		NC		"
KMR	B	29	None		NC		"
KMR	B	30	None		NC		"
KMR	B	31	None		NC		"
KMR	B	32	None		NC		"
KMR	B	33	None		NC		"
KMR	B	34	None		NC		"
KMR	B	35	None		NC		"

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3d/2	7/14/2014	NDG NC	BB/PS	
P-51A	B		3c/35	7/20/2014	NDG NC	PS	
P-51A	B		3e/1	7/13/2014	NDG NC	PS	(RB) Area Survey-11/15/13-**Cleaned 3/11/14**
P-51B	B		3-Apr	7/20/2014	NDG NC	PS	
P-51B	B		4a/4	7/20/2014	NDG NC	PS	
P-51B	B		5	7/20/2014	NDG NC	PS	
P-51B	B		b54/3	7/15/2014	NDG NC	BB/PS	
P-51B	B		B53	7/15/2014	NDG NC	BB/PS	
P-51B	B		B52	7/15/2014	NDG NC	BB/PS	
P-51B	B		B51/11	7/15/2014	NDG NC	BB/PS	
P-51B	B		5/38	7/20/2014	NDG NC	PS	
P-51B	B		5a/38	7/20/2014	NC	PS	
P-51B	B		B42	7/15/2014	NDG NC	BB/PS	
P-51C	B		B41/4	7/15/2014	NDG NC	BB/PS	
P-51C	B		B31/6	7/23/2014	NDG NC	BB/PS	
P-51C	B		B9/7	7/23/2014	CF	BB/PS	Under Containers
P-51C	B		B10	7/23/2014	NDG NC	NBB/PS	
P-51C	B		B12	7/15/2014	NC	BB/PS	
P-51C	B		B35/11	7/23/2014	CF	BB/PS	Under Containers
P-52	B		B36	7/23/2014	CF	BB/PS	Under Containers
P-51	B		1m	7/20/2014	NDG NC	PS	
P-51B	B		1L/8	7/20/2014	CF	PS	Under Containers
P-51B	B		1K/8	7/20/2014	CF	PS	Under Containers
P-51B	B		1J7	7/20/2014	NDG NC	PS	Under Containers
P-51A	B		1n/9	7/20/2014	NDG NC	PS	Under Containers

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3b/36	7/20/2014	NDG NC	PS	
P-51A	B		3a/34	7/13/2014	NDG NC	PS	
P-51A	B		3/33	7/13/2014	NDG IC	PS	Area Survey 7/15/14 - **Cleaned 8/5/14**
P-51A	B		1z/32	7/13/2014	NDG NC	PS	
P-51A	B		1x30	7/13/2014	NDG NC	PS	
P-51A	B		1y31	7/13/2014	NDG NC	PS	
P-51A	B		1w/29	7/13/2014	NC	PS	Area Survey-3/7/14-**Cleaned 3/11/14**
P-51A	B		1v/28	7/13/2014	NDG NC	PS	
P-51A	B		1u27	7/13/2014	NDG NC	PS	
P-51A	B		1t/26	7/13/2014	NDG NC	PS	
P-51A	B		1r7	7/13/2014	NDG NC	PS	
P-51A	B		1s/24	7/13/2014	NDG NC	PS	
P-51A	B		2b	7/13/2014	CF	PS	Under Containers
P-51A	B		2d/38	7/15/2014	NDG NC	BB/PS	
P-51A	B		2c/37	7/15/2014	NDG NC	BB/PS	
P-51A	B		2a/22	7/20/2014	NC	PS	
P-51	B		1aa	7/13/2014	CF	PS	Under Containers
P-51	B		1bb/21	7/13/2014	NC	PS	
P-51	B		1p/15	7/13/2014	NDG NC	PS	
P-51	B		1q	7/13/2014	NC	PS	
P-51	B		1H1/17	7/13/2014	NDG NC	PS	
P-51	B		H2/20	7/13/2014	NC	PS	
P-51B	B		1f/11	7/13/2014	NDG NC	PS	
P-51B	B		1c	7/13/2014	NDG NC	PS	
P-51B	B		1e	7/13/2014	NC	PS	
P-51B	B		1d	7/13/2014	NC	PS	
P-51B	B		1c/16	7/13/2014	NDG IC	PS	Area Survey- 7/15/14 - Confined space; Inspected on 7/23/14-Tide took trash

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51B	B		1b/15	7/13/2014	NDG IC	PS	Area Survey-7/15/14 - Confined space; Inspected on 8/6/14-Tide took trash
P-51B	B		A4/16	7/23/2014	NDG NC	BB/PS	
P-51B	B		A10	7/23/2014	NDG NC	BB/PS	
P-51B	B		A11	7/23/2014	NDG NC	BB/PS	
P-51B	B		A6	7/23/2014	CF	BB/PS	Under Containers
P-51B	B		1i/17	7/20/2014	CF	PS	Under Containers
P-51B	B		A7/18	7/23/2014	NDG NC	BB/PS	
P-51B	B		A8/19	7/23/2014	NDG NC	BB/PS	
P-51B	B		B20/20	7/23/2014	NDG NC	BB/PS	
P-51B	B		B4	7/23/2014	NDG NC	BB/PS	
P-51B	B		B6	7/23/2014	NDG NC	BB/PS	Area Survey-1/24/14-**Cleaned 3/11/14**
P-51B	B		13	7/23/2014	NDG NC	BB/PS	
P-52	B		B25	7/23/2014	CF	BB/PS	Area Survey-11/15/13; **Area Under Contruction per OCG 3/3/14**
P-52	B		E80/50	7/11/2014	NC	BB	
P-52	B		E95	7/11/2014	NDG NC	BB	
P-52	B		E94	7/11/2014	NDG NC	BB	
P-52	B		E81/49	7/11/2014	NC	BB	
P-52	B		E82/48	7/11/2014	NDG NC	BB	
P-52	B		E83/47	7/11/2014	NC	BB	
P-52	B		E91	7/11/2014	NDG NC	BB	
P-52	B		E92	7/11/2014	NDG NC	BB	
P-52	B		E93	7/11/2014	NC	BB	
P-52	B		E84/46	7/11/2014	NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52	B		E101	7/15/2014	NDG NC	BB/PS	
P-52	B		E102	7/15/2014	NDG NC	BB/PS	
P-52	B		E103	7/15/2014	NDG NC	BB/PS	
P-52	B		43	7/11/2014	NC	BB	
P-52	B		E86/42	7/11/2014	NDG NC	BB	
P-52	B		E87/41	7/11/2014	NDG NC	BB	
P-52	B		E88/40	7/11/2014	NDG NC	BB	
P-52	B		E62/37	7/11/2014	CF	BB	Under Containers
P-52	B		E63/36	7/11/2014	CF	BB	
P-52	B		E10/35	7/11/2014	NDG NC	BB	
P-52	B		E65/34	7/11/2014	CF	BB	Under Containers
P-52	B		E66/33	7/11/2014	CF	BB	Under Containers
P-52	B		E68	7/11/2014	CF	BB	Under Containers
P-52	B		E51	7/11/2014	NDG NC	BB	
P-52	B		E 52/29	7/11/2014	NDG NC	BB	
P-52	B		E51/28	7/11/2014	NC	BB	
P-52	B		E54A/27	7/11/2014	NDG NC	BB	
P-52	B		E54/26	7/11/2014	NC	BB	
P-52	B		56/25	7/11/2014	NDG NC	BB	
P-53	B		E89/39	7/11/2014	NC	BB	
P-53	B		F8/31	7/11/2014	CF	BB	Under Containers
P-53	B		F6/21	7/11/2014	NDG NC	BB	
P-53	B		F7/24	7/11/2014	NC	BB	Area Survey 3/1/2014 - **Cleaned and Replaced Filter 3/25/14**
P-53	B		F2/23	7/9/2014	NDG NC	BB/PS	
P-53	B		F4/2	7/9/2014	NDG NC	BB/PS	
P-52/53	T	1		7/9/2014	NDG NC	BB/PS	350' Mark-Rubbish, Silt-Area Survey 1/14/14-**Cleaned 5/13/14**
P-52/53	T	2		7/9/2014	NDG NC	BB/PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52/53	T	3		7/9/2014	NDG NC	BB/PS	
P-52/53	T	4		7/9/2014	NDG IC	BB/PS	Area Survey-7/9/14-Row A-11,stall #28-**Cleaned 7/30/14**
P-52/53	T	5		7/9/2014	NDG IC	BB/PS	Area Survey-7/9/14-Row B-15,stalls #19,#20,#21-**Cleaned 7/30/14**
P-52/53	T	6		7/9/2014	NDG NC	BB/PS	Area Survey (RB)-11/18/13-**Cleaned 3/12/14**
P-52/53	T	7		7/15/2014	NDG IC	BB/PS	Area Survey-5/20/14,Area Survey-7/15/14 - **Cleaned 7/22/14**
P-52/53	T	8		7/15/2014	NDG NC	BB/PS	Area Survey-7/15/14 Grating corroded, needs replacement
P-52/53	T	9		7/23/2014	NDG NC	BB/PS	
P-52/53	T	10		7/23/2014	NDG IC	BB/PS	Area Survey-7/23/14
P-52/53	T	11		7/15/2014	NDG NC	BB/PS	
P-51	T	12		7/20/2014	NDG NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-1	B	1	0316	9/7/2014	3 NDG	MG	
P-1	B	2	0336	9/7/2014	3 NDG	MG	
P-1	B	3	0346	9/7/2014	3 NDG	MG	
P-1	B	4	0366	9/7/2014	CF	MG	Under Container
P-1	B	5	0367	9/7/2014	SWD	MG	STORM DRAIN COVER
P-1	B	6	0375	9/7/2014	SWD	MG	STORM DRAIN COVER
P-1	B	7	0385	9/7/2014	1 DGIP NC	MG	
P-1	B	8	0395	9/7/2014	1 DGIP NC	MG	
P-1	B	9	0055	9/7/2014	3 NDG SC	MG	
P-1	B	10	0035	9/7/2014	3 NDG SC	MG	
P-1	B	11	0015	9/7/2014	3 NDG SC	MG	
P-1	B	12	0045	9/7/2014	3 NDG SC	MG	
P-1	B	13	0248	9/7/2014	MH	MG	MAN HOLE COVER
P-1	B	14	0365	9/7/2014	SWD	MG	STORM DRAIN COVER
P-1	B	15	0085	9/7/2014	1 SC	MG	
P-2	B	1	0195	9/7/2014	2 NGC SC	MG	
P-2	B	2	0662	9/7/2014	MH	MG	
P-2	B	3	0065	9/7/2014	3 NDG SC	MG	
P-2	T	1	440'	9/7/2014	2 NC	MG	
P-2			0778	9/7/2014	CB	MG	
P-2			0774	9/7/2014	CB	MG	
P-2			0696	9/7/2014	CB	MG	
P-2			0692	9/7/2014	CB	MG	
P-2			0688	9/6/2014	CB	MG	
P-2			0683	9/7/2014	CB	MG	
P-2			0678	9/7/2014	CB	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-2			0672	9/7/2014	CB	MG	
P-2			0665	9/7/2014	MH	MG	
P-2			0728	9/7/2014	3 NDG SC	MG	
P-2			0724	9/7/2014	3 NDG SC	MG	
P-2			0722	9/7/2014	3 NDG SC	MG	
P-2			0656	9/7/2014	3 NDG SC	MG	
P-2			0657	9/7/2014	3 NDG SC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-10	B	1	1314	9/6/2014	NC	MG	
P-11 SHED	SWD	1	None	9/6/2014	NC	MG	
P-11 SHED	SWD	2	None	9/6/2014	NC	MG	
P-11 SHED	SWD	3	None	9/6/2014	NC	MG	
P-11 SHED	SWD	4	None	9/6/2014	NC	MG	
P-11 ADM.	SWD	1	None	9/6/2014	SC	MG	
P-11 ADM.	SWD	2	None	9/6/2014	SC	MG	
P-11 ADM.	SWD	3	None	9/6/2014	SC	MG	
P-11 ADM.	SWD	4	None	9/6/2014	SC	MG	
P-11 ADM.	SWD	5	None	9/6/2014	SC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-18	B	1	2693	9/6/2014	4 SC	MG	
P-18	B	2	2695	9/6/2014	4 SC	MG	
P-18	B	3	2697	9/6/2014	2 NC	MG	
P-18	B	4	2699	9/6/2014	2 NC	MG	
P-18	B	5	2701	9/6/2014	2 NC	MG	
P-18	B	6	2703	9/6/2014	2 NC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-19	B	1	2730	9/4/2014	NDG SC	BL	
P-19	B	2	2728	9/4/2014	NDG SC	BL	
P-19	B	3	2726	9/4/2014	DGIP SC	BL	
P-19	B	4	2724	9/4/2014	DGIP SC	BL	
P-19	B	5	2722	9/4/2014	DGIP SC	BL	
P-19	B	6	2727	9/4/2014	NDG SC	BL	
P-19	B	7	SDI ?	9/4/2014	MH	BL	Manhole not able to view
P-19	B	8	3231	9/4/2014	NDG SC	BL	
Super Ferry	B	9	2827	9/4/2014	NDG SC	BL	
" "	B	10	2828	9/4/2014	NDG SC	BL	
" "	B	11	2826	9/4/2014	NDG SC	BL	
" "	B	12	2830	9/4/2014	NDG SC	BL	
" "	B	13	2829	9/4/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-20 yd.	B	14	2896	9/8/2014	NC	BL	Construction project has protected drain
P-20 yd.	B	15	2831	9/8/2014	NC	BL	Construction project has protected drain
P-20 yd.	B	16	2895	9/8/2014	NC	BL	Construction project has protected drain
P-20 yd.	B	17	2897	9/8/2014	NC	BL	Construction project has protected drain
P-20 yd.	culvert	18	2880	9/29/2014	IC	BL	Area survey 9/29/14 - **Cleaned 10/1/2014**
P-20 yd.	culvert	19	2881	9/29/2014	IC	BL	Area survey 9/29/14 - **Cleaned 10/1/2014**
P-21	B	1	2985	9/8/2014	NC	BL	Construction project has protected drain
P-21	B	2	2950	9/8/2014	NC	BL	Construction project has protected drain
Whse 6	Roadwy-B	3	3172	9/17/2014	DGIP SC	BL	
Whse 6	Roadwy-B	4	3174	9/17/2014	DGIP SC	BL	
Whse 6	Roadwy-B	5	3175	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	6	3173	9/17/2014	DGIP SC	BL	
Whse 6	Roadwy-B	7	3176	9/17/2015	NDG SC	BL	
Whse 6	Roadwy-B	8	3177	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	9	3178	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	10	3179	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	11	3180	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	12	3181	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	13	3183	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	14	3182	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	15	3184	9/17/2014	NDG SC	BL	
Whse 6	Roadwy-B	16	3185	9/17/2014	NDG SC	BL	
Whse 8	Roadwy-B	17	3192	9/19/2014	NDG SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-22	B	1	3169	9/19/2014	DGIP SC	BL	
P-22	B	2	3170	9/19/2014	NDG SC	BL	
P-22	B	3	3171	9/19/2014	NDG SC	BL	
P-23	B	20	3193	9/19/2014	NDG SC	BL	
P-23	B	21	3250	9/19/2014	NDG SC	BL	
P-23	B	22	3210	9/19/2014	NDG SC	BL	
P-23	B	23	3212	9/19/2014	NDG SC	BL	
P-23	B	24	3213	9/19/2014	NDG SC	BL	
P-23	B	25	3295	9/19/2014	NDG SC	BL	
P-23	B	26	3187	9/19/2014	NDG SC	BL	
P-23	B	27	3188	9/19/2014	NDG SC	BL	
P-23	B	28	3186	9/19/2014	NDG SC	BL	
open lot	B	29	3229	9/19/2014	DGIP NC	BL	
open lot	B	30	3228	9/19/2014	DGIP NC	BL	
open lot	B	31	3230	9/19/2014	DGIP NC	BL	
open lot	B	32	3232	9/19/2014	DGIP NC	BL	
open lot	B	33	3227	9/19/2014	DGIP NC	BL	
open lot	B	34	3224	9/19/2014	NDG SC	BL	
open lot	B	35	3235	9/19/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-24	B	34	3265	9/22/2014	NDG SC	BL	
P-24	B	35	3280	9/22/2014	NDG SC	BL	
P-24	B	36	3275	9/22/2014	NDG SC	BL	
P-24	B	37	3285	9/22/2014	NDG SC	BL	
P-24	B	38	3483	9/22/2014	NDG SC	BL	
P-24	B	39	4119	9/22/2014	DGIP SC	BL	
P-24	B	40	4121	9/22/2014	DGIP SC	BL	
P-24	B	41	4123	9/22/2014	NDG SC	BL	
P-25	B	1	3530	9/22/2014	NDG SC	BL	
P-25	B	2	3507	9/22/2014	NDG SC	BL	
P-25	B	3	3490	9/22/2014	NDG SC	BL	
P-26	B	4	3480	9/22/2014	NDG SC	BL	
P-26	B	5	3482	9/22/2014	DGIP SC	BL	
P-27	B	6	3481	9/22/2014	NDG SC	BL	
P-29	T	1	SDT 1	9/22/2014	SC	BL	
P-29	T	2	SDT 2	9/22/2014	SC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-31	B	1	4356	9/29/2014	NDG SC	BL	
P-31	B	2	4357	9/29/2014	NDG SC	BL	
P-31	B	3	4279	9/29/2014	NDG SC	BL	
P-31	B	18A	4273	9/29/2014	NDG SC	BL	
P-31	B	17A	4272	9/29/2014	NDG SC	BL	
P-31	B	21	4183	9/29/2014	NDG IC	BL	Area survey 9/29/14 - **Cleaned & Completed 10/9/2014**
P-31	B	20	4157	9/29/2014	NDG IC	BL	Area survey 9/29/14 - **Cleaned & Completed 10/9/2014**
P-31	B	17	4267	9/29/2014	NDG SC	BL	
P-31	B	18	4268	9/29/2014	NDG SC	BL	
P-31	B	19	4269	9/29/2014	NDG SC	BL	
P-31	B	22	4270	9/29/2014	NDG SC	BL	
P-32	B	25	4271	9/29/2014	NDG SC	BL	
P-32	B	19	4274	9/29/2014	NDG SC	BL	
P-32	B	6	4275	9/29/2014	NDG SC	BL	
P-32	B	5	4276	9/29/2014	NDG SC	BL	
P-32	B	4	4277	9/29/2014	NDG SC	BL	
P-32	B	7	4280	9/29/2014	NDG SC	BL	
P-32	B	16	4256	9/29/2014	NDG SC	BL	
P-32	T	1	SDT 4288	9/29/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	1	SDT 4284	9/29/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 24300	9/29/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4301	9/29/2014	Covered	BL	Should be on a regular maintenance program related to cleaning
P-32	T	2	SDT 4296	9/29/2014	Covered	BL	Should be on a regular maintenance program related to cleaning

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	9-Jul	Comment	Initial	REMARKS
P-32	T	3	SDT 4258	9/29/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4259	9/29/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-32	T	3	SDT 4253	9/29/2014	Covered	BL	Should be on a regular mainenance program related to cleaning
P-33	B	16	4360	9/29/2014	DGIP IC	BL	Area survey 9/29/14
P-33	B	27	4361	9/29/2014	NDG SC	BL	
P-33	B	15	4362	9/29/2014	NDG SC	BL	
P-33	B	1	4370	9/29/2014	NDG SC	BL	
P-33	B	3	4375	9/29/2014	NDG SC	BL	
P-33	B	2	4382	9/29/2014	NDG SC	BL	
P-33	B	13	4385	9/29/2014	NDG SC	BL	
P-33	B	11	4390	9/29/2014	NDG SC	BL	
P-33	B	12	4395	9/29/2014	NDG SC	BL	
P-33	B	14	4364	9/29/2014	NDG SC	BL	
P-33	B	13	4368	9/29/2014	NDG SC	BL	
P-33	B	21	4454	9/29/2014	Covered	BL	No drain as metal cover
P-33	B	20	4458	9/29/2014	NDG SC	BL	
P-33	B	4	4460	9/29/2014	NDG SC	BL	
P-33	B	15	4465	9/29/2014	NDG SC	BL	
P-34	B	1	4491	9/29/2014	NDG SC	BL	
P-34	B	2	4495	9/29/2014	NDG SC	BL	
P-34	B	3	4499	9/29/2014	NDG SC	BL	
P-34	B	4	4503	9/29/2014	NDG SC	BL	
P-34	B	5	4507	9/29/2014	NDG SC	BL	
P-34	B	6	4511	9/29/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-35	B	1	4512	9/29/2014	Covered	BL	In UH construction site
P-35	B	2	4513	9/29/2014	Covered	BL	In UH construction site
P-35	B	3	4514	9/29/2014	DGIP NC	BL	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-39/40	B	1	5721	09/30/14	NC	PS	Curb Drain
P-39/40	B	2	5570	09/30/14	NC	PS	Curb Drain
P-39/40	B	3	5550	09/30/14	NC	PS	Area Survey 5/18/14 & 7/15/14- **CLEANED 7/11/14**
P-39/40	B	4	5551	09/30/14	NC	PS	
P-39/40	B	5	5552	09/30/14	NC	PS	
P-39/40	B	6	5553	09/30/14	IC	PS	Area Survey 5/18/14 & duplicate Area Survey 7/15/14
P-39/40	B	7	5554	09/30/14	NC	PS	MHC
P-39/40	B	8	None	09/30/14	NC	PS	Steel Plate Covering
P-39/40	B	9	None	09/30/14	NC	PS	MHC
P-39/40	B	10a	None	09/30/14	NC	PS	
P-39/40	B	11	5931	09/30/14	NDG NC	PS	
P-39/40	B	12	5930	09/30/14	NC	PS	
P-39/40	B	13	5720	09/30/14	NC	PS	
P-39/40	B	14	None	09/30/14	NC	PS	3- MH
P-39/40	TD	1	None	09/30/14	NC	PS	
P-41	B	1	None	09/30/14	NC	PS	
P-41	B	2	None	09/30/14	NC	PS	
P-41	B	3	None	09/30/14	NC	PS	
P-41	B	4	None	09/30/14	NC	PS	
P-41	B	5	None	09/30/14	NC	PS	
P-41	B	6	None	09/30/14	NC	PS	
P-41	B	7	None	09/30/14	NC	PS	
P-41	B	8	None	09/30/14	NC	PS	
P-41	B	9	None	09/30/14	NC	PS	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-41	B	10	None	09/30/14	NC	PS	
P-41	B	11	None	09/30/14	NC	PS	
P-41	B	12	None	09/30/14	NC	PS	
P-41	B	13	None	09/30/14	NC	PS	
P-42	B	1	None				SCHEDULED FOR DEMOLITION
P-42	B	2	None				"
P-42	B	3	None				"
P-42	B	4	None				"
P-42	B	5	None				"
P-42	B	6	None				"
P-42	B	7	None				"
P-42	B	8	None				"
P-42	B	9	None				"
P-42	B	10	None				"
KMR	B	1	None				UNDER DEMOLITION
KMR	B	2	None				"
KMR	B	3	None				"
KMR	B	4	None				"
KMR	B	5	None				"
KMR	B	6	None				Inside Dept. of Ag Fenced Area
KMR	B	7	None				Inside Dept. of Ag Fenced Area
KMR	B	8	None				Inside Dept. of Ag Fenced Area
KMR	B	9	None				Inside Dept. of Ag Fenced Area
KMR	B	10	None				Inside Dept. of Ag Fenced Area

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
KMR	B	11	None				UNDER DEMOLITION
KMR	B	12	None				"
KMR	B	13	None				"
KMR	B	14	None				"
KMR	B	15	None				"
KMR	B	16	None				"
KMR	B	17	None				"
KMR	B	18	None				"
KMR	B	19	None				"
KMR	B	20	None				"
KMR	B	21	None				"
KMR	B	22	None				"
KMR	B	23	None				"
KMR	B	24	None				"
KMR	B	25	None				"
KMR	B	26	None				"
KMR	B	27	None				"
KMR	B	28	None				"
KMR	B	29	None				"
KMR	B	30	None				"
KMR	B	31	None				"
KMR	B	32	None				"
KMR	B	33	None				"
KMR	B	34	None				"
KMR	B	35	None				"

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3d/2	9/4/2014	NDG NC	BB	
P-51A	B		3c/35	9/21/2001	NDG NC	MG	
P-51A	B		3e/1	9/4/2014	NDG NC	BB	
P-51B	B		4/3	9/26/2014	CF	BB	Under VPC Autos
P-51B	B		4a/4	9/26/2014	CF	BB	Under VPC Autos
P-51B	B		5	9/26/2014	CF	BB	Under VPC Autos
P-51B	B		b54/3	9/26/2014	CF	BB	Under VPC Autos
P-51B	B		B53	9/26/2014	CF	BB	Under VPC Autos
P-51B	B		B52	9/26/2014	NDG NC	BB	
P-51B	B		B51/11	9/5/2014	NDG NC	BB	
P-51B	B		5/38	9/21/2014	NDG NC	MG	
P-51B	B		5a/38	9/21/2014	NC	MG	
P-51B	B		B42	9/21/2014	NDG NC	MG	
P-51C	B		B41/4	9/21/2014	NDG NC	MG	
P-51C	B		B31/6	9/21/2014	NDG NC	MG	
P-51C	B		B9/7	9/26/2014	CF	BB	Under Containers
P-51C	B		B10	9/26/2014	NDG NC	BB	
P-51C	B		B12	9/26/2014	NC	BB	
P-51C	B		B35/11	9/26/2014	CF	BB	Under Containers
P-52	B		B36	9/26/2014	CF	BB	Under Containers
P-51	B		1m	9/26/2014	NDG NC	BB	
P-51B	B		1L/8	9/21/2014	NDG NC	MG	
P-51B	B		1K/8	9/21/2014	NDG NC	MG	
P-51B	B		1J7	9/21/2014	NDG NC	MG	
P-51A	B		1n/9	9/21/2014	NDG NC	MG	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51A	B		3b/36	9/21/2014	NDG NC	MG	
P-51A	B		3a/34	9/21/2014	NDG NC	MG	
P-51A	B		3/33	9/26/2014	NDG NC	BB	
P-51A	B		1z/32	9/21/2014	NDG NC	MG	
P-51A	B		1x30	9/21/2014	NDG NC	MG	
P-51A	B		1y31	9/21/2014	NDG NC	MG	
P-51A	B		1w/29	9/26/2014	NC	BB	
P-51A	B		1v/28	9/26/2014	NDG NC	BB	
P-51A	B		1u27	9/21/2014	NDG NC	MG	
P-51A	B		1t/26	9/21/2014	NDG NC	MG	
P-51A	B		1r7	9/21/2014	NDG NC	MG	
P-51A	B		1s/24	9/26/2014	NDG NC	BB	
P-51A	B		2b	9/26/2014	NDG NC	BB	
P-51A	B		2d/38	9/4/2014	NDG NC	BB	
P-51A	B		2c/37	9/4/2014	NDG NC	BB	
P-51A	B		2a/22	9/5/2014	NC	BB	
P-51	B		1aa	9/5/2014	CF	BB	Under Containers
P-51	B		1bb/21	9/5/2014	NC	BB	
P-51	B		1p/15	9/5/2014	CF	BB	Under Containers
P-51	B		1q	9/5/2014	NC	BB	
P-51	B		1H1/17	9/5/2014	NDG NC	BB	
P-51	B		H2/20	9/5/2014	NC	BB	
P-51B	B		1f/11	9/5/2014	CF	BB	Under Containers
P-51B	B		1c	9/5/2014	NDG NC	BB	
P-51B	B		1e	9/5/2014	NC	BB	
P-51B	B		1d	9/5/2014	NC	BB	
P-51B	B		1c/16	9/5/2014	NDG NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-51B	B		1b/15	9/5/2014	NDG NC	BB	
P-51B	B		A4/16	9/21/2014	NDG NC	MG	
P-51B	B		A10	9/21/2014	NDG NC	MG	
P-51B	B		A11	9/26/2014	NDG NC	BB	
P-51B	B		A6	9/21/2014	CF	MG	Under Containers
P-51B	B		1i/17	9/26/2014	CF	BB	Under Containers
P-51B	B		A7/18	9/21/2014	NDG NC	MG	
P-51B	B		A8/19	9/21/2014	NDG NC	MG	
P-51B	B		B20/20	9/21/2014	NDG NC	MG	
P-51B	B		B4	9/21/2014	NDG NC	MG	
P-51B	B		B6	9/26/2014	NDG NC	BB	
			13	9/21/2014	NDG NC	MG	
P-52	B		B25	9/26/2014	CF	BB	Area Survey-11/15/13; **Area Under Contruction per OCG 3/3/14**
P-52	B		E80/50	9/5/2014	NC	BB	
P-52	B		E95	9/5/2014	NDG NC	BB	
P-52	B		E94	9/5/2014	NDG NC	BB	
P-52	B		E81/49	9/5/2014	NC	BB	
P-52	B		E82/48	9/5/2014	NDG NC	BB	
P-52	B		E83/47	9/5/2014	NC	BB	
P-52	B		E91	9/5/2014	NDG NC	BB	
P-52	B		E92	9/5/2014	NDG NC	BB	
P-52	B		E93	9/5/2014	NC	BB	
P-52	B		E84/46	9/5/2014	NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52	B		E101	9/5/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E102	9/5/2014	NDG NC	BB	Employee Parking Lot
P-52	B		E103	9/5/2014	NDG NC	Bb	Employee Parking Lot
P-52	B		43	9/5/2014	NC	BB	
P-52	B		E86/42	9/5/2014	NDG NC	BB	
P-52	B		E87/41	9/5/2014	NDG NC	BB	
P-52	B		E88/40	9/5/2014	NDG NC	BB	
P-52	B		E62/37	9/5/2014	CF	BB	In chassis area
P-52	B		E63/36	9/5/2014	CF	BB	In chassis area
P-52	B		E10/35	9/5/2014	NDG NC	BB	
P-52	B		E65/34	9/5/2014	CF	BB	Under Containers
P-52	B		E66/33	9/5/2014	CF	BB	Under containers
P-52	B		E68	9/5/2014	CF	BB	Under Containers
P-52	B		E51	9/5/2014	NDG NC	BB	
P-52	B		E 52/29	9/5/2014	NDG NC	BB	
P-52	B		E51/28	9/5/2014	NC	BB	
P-52	B		E54A/27	9/5/2014	NDG NC	BB	
P-52	B		E54/26	9/5/2014	NC	BB	
P-52	B		56/25	9/5/2014	NDG NC	BB	
P-53	B		E89/39	9/5/2014	NC	BB	
P-53	B		F8/31	9/5/2014	CF	BB	Under Containers
P-53	B		F6/21	9/21/2014	NDG NC	MG	
P-53	B		F7/24	9/5/2014	NC	BB	
P-53	B		F2/23	9/21/2014	NDG NC	MG	
P-53	B		F4/2	9/21/2014	NDG NC	MG	
P-52/53	T	1		9/5/2014	NDG NC	BB	
P-52/53	T	2		9/5/2014	NDG NC	BB	

State of Hawaii
Department of Transportation, Harbors Division
Storm Water Drain Inspection and Monitoring Report

Map ID			Reference No	Bi-Monthly Inspections			
Location	Type	No.	SDI	Date	Comment	Initial	REMARKS
P-52/53	T	3		9/5/2014	NDG NC	BB	
P-52/53	T	4		9/29/2014	NDG NC	BB	
P-52/53	T	5		9/29/2014	NDG NC	BB	
P-52/53	T	6		9/29/2014	NDG NC	BB	
P-52/53	T	7		9/5/2014	NDG NC	BB	
P-52/53	T	8		9/4/2014	NDG NC	BB	Area Survey-7/15/14-Replace corroded grates
P-52/53	T	9		9/29/2014	NDG NC	BB	
P-52/53	T	10		9/29/2014	NDG NC	BB	Area Survey-7/23/14- **Cleaned 8/27/2014**
P-52/53	T	11		9/29/2014	NDG NC	BB	
P-51	T	12		9/29/2014	NDG NC	BB	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO010102	DI 0102	HO01	11/18/2014	CF	MH	Under plate
SDIHO010112	DI 0112	HO01	11/18/2014	NC	MH	
SDIHO010122	DI 0122	HO01	11/18/2014	NC	MH	
SDIHO010152	DI 0152	HO01	11/18/2014	NC	MH	
SDIHO010162	DI 0162	HO01	11/18/2014	NC	MH	
SDIHO010172	DI 0172	HO02	11/18/2014	NC	MH	
SDIHO010202	DI 0202	HO01	11/18/2014	NC	MH	
SDIHO010208	DI 0208	HO01	11/18/2014	NC	MH	
SDIHO010210	DI 0210	HO01	11/18/2014	CF	MH	Under Container
SDIHO010212	DI 0212	HO01	11/18/2014	NC	MH	
SDIHO010214	DI 0214	HO01	11/18/2014	NC	MH	
SDIHO010224	DI 0224	HO01	11/18/2014	NC	MH	
SDIHO010252	DI 0252	HO01	11/18/2014	NC	MH	
SDIHO010254	DI 0254	HO01	11/18/2014	NC	MH	
SDIHO010256	DI 0256	HO02	11/29/2014	NDG/NC	MH	
SDIHO010258	DI 0258	HO02	11/29/2014	NDG/NC	MH	
SDIHO010260	DI 0260	HO02	11/29/2014	NDG/NC	MH	
SDIHO010262	DI 0262	HO02	11/29/2014	NDG/NC	MH	
SDIHO010264	DI 0264	HO02	11/29/2014	NDG/NC	MH	
SDIHO010266	DI 0266	HO02	11/29/2014	NDG/NC	MH	
SDIHO010268	DI 0268	HO02	11/29/2014	NDG/NC	MH	
SDIHO010270	DI 0270	HO02	11/29/2014	NDG/NC	MH	
SDIHO010272	DI 0272	HO02	11/29/2014	NDG/NC	MH	
SDIHO010274	DI 0274	HO02	11/29/2014	NDG/NC	MH	
SDIHO010276	DI 0276	HO02	11/29/2014	NDG/NC	MH	
SDIHO010278	DI 0278	HO02	11/29/2014	NDG/NC	MH	
SDIHO010280	DI 0280	HO02	11/29/2014	NDG/NC	MH	
SDIHO010282	DI 0282	HO02	11/29/2014	NDG/NC	MH	
SDIHO010284	DI 0284	HO02	11/29/2014	NDG/NC	MH	
SDIHO010286	DI 0286	HO02	11/29/2014	NDG/NC	MH	
SDIHO010288	DI 0288	HO02	11/29/2014	NDG/NC	MH	
SDIHO010290	DI 0290	HO02	11/29/2014	NDG/NC	MH	
SDIHO010292	DI 0292	HO02	11/29/2014	NDG/NC	MH	
SDIHO020174	DI 0174	HO02	11/14/2014	NC	MH	Area Survey 11/19/14- Old SDI 0662
SDIHO020176	DI 0176	HO02	11/14/2014	NC	MH	
SDIHO020178	DI 0178	HO02	11/14/2014	NC	MH	
SDIHO020508	DI 0508	HO02	11/14/2014	NC	MH	Street Storm Drain
SDIHO020510	DI 0510	HO02	11/14/2014	NC	MH	CB/Street Storm Drain
SDIHO020512	DI 0512	HO02	11/14/2014	NC	MH	
SDIHO020520	DI 0520	HO02	11/14/2014	NC	MH	Street Storm Drain
SDIHO020522	DI 0522	HO02	11/14/2014	NC	MH	Street Storm Drain
SDIHO020640	DI 0640	HO02	11/18/2014	NC	MH	Street Storm Drain
SDIHO020642	DI 0642	HO02	11/18/2014	NC	MH	Street Storm Drain

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO020644	DI 0644	HO02	11/18/2014	NC	MH	Street Storm Drain
SDIHO020650	DI 0650	HO02	11/18/2014	NC	MH	Street Storm Drain
SDIHO020724	DI 0724	HO02	11/18/2014	NC	MH	
SDIHO020804	DI 0804	HO02	11/18/2014	NC	MH	
SDIHO020806	DI 0806	HO02	11/18/2014	NC	MH	
SDIHO020808	DI 0808	HO02	11/18/2014	NC	MH	
SDIHO020810	DI 0810	HO02	11/18/2014	NC	MH	
SDIHO020812	DI 0812	HO02	11/18/2014	NC	MH	
SDIHO020814	DI 0814	HO02	11/18/2014	NC	MH	
SDIHO051002	DI 1002	HO05				T
SDIHO051012	DI 1012	HO05				T
SDIHO061042	DI 1042	HO06				T
SDIHO061098	DI 1098	HO06				T
SDIHO061100	DI 1100	HO06				T
SDIHO061102	DI 1102	HO06				T
SDIHO061116	DI 1116	HO06				T
SDIHO061118	DI 1118	HO06				T
SDIHO061162	DI 1162	HO06				T
SDIHO081238	DI 1238	HO08				T
SDIHO081240	DI 1240	HO08				T
SDIHO081242	DI 1242	HO08				T
SDIHO081244	DI 1244	HO08				T
SDIHO081260	DI 1260	HO08				T
SDIHO081282	DI 1282	HO08				T
SDIHO081284	DI 1284	HO08				T
SDIHO081286	DI 1286	HO08				T
SDIHO081288	DI 1288	HO08				T
SDIHO081504	DI 1504	HO08				T
SDIHO081506	DI 1506	HO08				T
SDIHO091290	DI 1290	HO09				T
SDIHO091292	DI 1292	HO09				T
SDIHO091294	DI 1294	HO09				T
SDIHO091296	DI 1296	HO09				T
SDIHO091308	DI 1308	HO09				T
SDIHO091310	DI 1310	HO09				T
SDIHO091352	DI 1352	HO09				T
SDIHO091356	DI 1356	HO09				T
SDIHO091360	DI 1360	HO09				T
SDIHO091362	DI 1362	HO09				T
SDIHO091364	DI 1364	HO09				T
SDIHO091384	DI 1384	HO09				T
SDIHO091388	DI 1388	HO09				T
SDIHO091390	DI 1390	HO09				T

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO091392	DI 1392	HO09				T
SDIHO091394	DI 1394	HO09				T
SDIHO091396	DI 1396	HO09				T
SDIHO091420	DI 1420	HO09				T
SDIHO091422	DI 1422	HO09				T
SDIHO091424	DI 1424	HO09				T
SDIHO091430	DI 1430	HO09				T
SDIHO091432	DI 1432	HO09				T
SDIHO091434	DI 1434	HO09				T
SDIHO091452	DI 1452	HO09				T
SDIHO091456	DI 1456	HO09				T
SDIHO091458	DI 1458	HO09				T
SDIHO091462	DI 1462	HO09				T
SDIHO091464	DI 1464	HO09				T
SDIHO091466	DI 1466	HO09				T
SDIHO091470	DI 1470	HO09				T
SDIHO091472	DI 1472	HO09				T
SDIHO091474	DI 1474	HO09				T
SDIHO091478	DI 1478	HO09				T
SDIHO091480	DI 1480	HO09				T
SDIHO091482	DI 1482	HO09				T
SDIHO091486	DI 1486	HO09				T
SDIHO091488	DI 1488	HO09				T
SDIHO091490	DI 1490	HO09				T
SDIHO091572	DI 1572	HO09				T
SDIHO091604	DI 1604	HO09				T
SDIHO091608	DI 1608	HO09				T
SDIHO091610	DI 1610	HO09				T
SDIHO091620	DI 1620	HO09				T
SDIHO091622	DI 1622	HO09				T
SDIHO091624	DI 1624	HO09				T
SDIHO091626	DI 1626	HO09				T
SDIHO091630	DI 1630	HO09				T
SDIHO091648	DI 1648	HO09				T
SDIHO091650	DI 1650	HO09				T
SDIHO091652	DI 1652	HO09				T
SDIHO091654	DI 1654	HO09				T
SDIHO091656	DI 1656	HO09				T
SDIHO092022	DI 2022	HO09				T
SDIHO092030	DI 2030	HO09	11/18/2014	NC	MH	Street Storm Drain
SDIHO111744	DI 1744	HO11	11/18/2014	NC	MH	
SDIHO111764	DI 1764	HO11	11/18/2014	NC	MH	
SDIHO111766	DI 1766	HO11	11/18/2014	NC	MH	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO111794	DI 1794	HO11	11/18/2014	NC	MH	
SDIHO111796	DI 1796	HO11	11/18/2014	NC	MH	
SDIHO111798	DI 1798	HO11	11/18/2014	NC	MH	
SDIHO111824	DI 1824	HO11	11/18/2014	NC	MH	
SDIHO111834	DI 1834	HO11	11/18/2014	NC	MH	
SDIHO111836	DI 1836	HO11	11/18/2014	NC	MH	
SDIHO111854	DI 1854	HO11	11/18/2014	NC	MH	
SDIHO152202	DI 2202	HO15				T
SDIHO182302	DI 2302	HO18	11/28/2014	NC	MH	
SDIHO182304	DI 2304	HO18	11/28/2014	NC	MH	
SDIHO182306	DI 2306	HO18	11/28/2014	SC	MH	
SDIHO182308	DI 2308	HO18	11/28/2014	SC	MH	
SDIHO182310	DI 2310	HO18	11/28/2014	NC	MH	
SDIHO182320	DI 2320	HO18	11/28/2014	NC	MH	
SDIHO182420	DI 2420	HO18	11/28/2014	NC	MH	Location Pier 19
SDIHO182422	DI 2422	HO18	11/28/2014	NDG/NC	MH	Location Pier 19
SDIHO182430	DI 2430	HO18	11/28/2014	SC	MH	Location Pier 19
SDIHO182432	DI 2432	HO18	11/28/2014	NC	MH	Location Pier 19
SDIHO182434	DI 2434	HO18	11/28/2014	SC	MH	Location Pier 19
SDIHO192410	DI 2410	HO19	11/17/2014	NDG SC	BL	
SDIHO192484	DI 2484	HO19	11/17/2014	NDG IC	BL	Area Survey 11/17/14
SDIHO192504	DI 2504	HO19	11/17/2014	NDG SC	BL	
SDIHO192520	DI 2520	HO19	11/17/2014	NC	BL	
SDIHO192544	DI 2544	HO19	11/17/2014	NDG NC	BL	
SDIHO192554	DI 2554	HO23	11/17/2014	NC	BL	
SDIHO192562	DI 2562	HO23	11/17/2014	NDG NC	BL	
SDIHO202502	DI 2502	HO19	11/17/2014	NC	BL	P20 CON PROJECT
SDIHO202580	DI 2580	HO20	11/17/2014	NDG SC	BL	P20 CON PROJECT
SDIHO202582	DI 2582	HO20	11/17/14	NDG SC	BL	P20 CON PROJECT
SDIHO202584	DI 2584	HO20	11/17/2014	NC	BL	P20 CON PROJECT
SDIHO202642	DI 2642	HO20	11/26/2014	NDG	BL	
SDIHO202646	DI 2646	HO20	11/26/2014	NDG	BL	
SDIHO202648	DI 2648	HO20	11/26/2014	NDG	BL	
SDIHO202650	DI 2650	HO20	11/26/2014	NDG	BL	
SDIHO202652	DI 2652	HO20	11/26/2014	NDG	BL	
SDIHO202654	DI 2654	HO20	11/26/2014	NDG	BL	
SDIHO202656	DI 2656	HO20	11/26/2014	NDG	BL	
SDIHO202658	DI 2658	HO20	11/26/2014	NDG	BL	
SDIHO202660	DI 2660	HO20	11/26/2014	NDG	BL	
SDIHO202662	DI 2662	HO20	11/26/2014	NDG	BL	
SDIHO202664	DI 2664	HO20	11/26/2014	NDG	BL	
SDIHO202666	DI 2666	HO20	11/26/2014	NDG	BL	
SDIHO202670	DI 2670	HO20	11/18/2014	NDG	BL	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO202672	DI 2672	HO20	11/18/2014	NDG	BL	
SDIHO202674	DI 2674	HO20	11/18/2014	NDG	BL	
SDIHO202700	DI 2700	HO21	11/18/2014	NDG	BL	
SDIHO202704	DI 2704	HO20	11/17/2014	NDG	BL	
SDIHO212602	DI 2602	HO21	11/17/2014	NDG SC	BL	
SDIHO212612	DI 2612	HO21	11/17/2014	NDG SC	BL	
SDIHO212792	DI 2792	HO21	11/26/2014	NDG	BL	
SDIHO222802	DI 2802	HO22	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO222806	DI 2806	HO23	11/26/2014	IC	BL	Area survey 11/26/14-PUT DG IN DRAIN
SDIHO232438	DI 2438	HO23	11/18/2014	IC	BL	Area Survey 11/18/14
SDIHO232440	DI 2440	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232442	DI 2442	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232448	DI 2448	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232678	DI 2678	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232680	DI 2680	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232682	DI 2682	HO23	11/17/2014	IC	BL	Area Survey 11/17/14
SDIHO232686	DI 2686	HO23	11/18/2014	IC	BL	Area Survey 11/18/14
SDIHO232812	DI 2812	HO23	11/18/2014	IC	BL	Area Survey 11/18/14-PUT DG IN DRAIN
SDIHO232814	DI 2814	HO23	11/18/2014	IC	BL	Area Survey 11/18/14-PUT DG IN DRAIN
SDIHO233002	DI 3002	HO23	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO233004	DI 3004	HO23	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO233006	DI 3006	HO23	11/26/2014	IC	BL	PUT DG IN DRAIN
SDIHO233008	DI 3008	HO23	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO233010	DI 3010	HO23	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO233030	DI 3030	HO23	11/26/2014	IC	BL	Area Survey 11/24/14-PUT DG IN DRAIN
SDIHO243072	DI 3072	HO24	11/26/2014	IC	BL	Area Survey 11/24/14-PUT DG IN DRAIN
SDIHO243074	DI 3074	HO24	11/26/2014	IC	BL	Area Survey 11/24/14-PUT DG IN DRAIN
SDIHO243202	DI 3202	HO24	11/19/2014	NDG SC	BL	
SDIHO243242	DI 3242	HO24	11/19/2014	NDG IC	BL	Area Survey 11/19/14-PUT DG IN DRAIN
SDIHO243502	DI 3502	HO25	11/19/2014		BL	PLATE
SDIHO243522	DI 3522	HO25	11/19/2014		BL	MANHOLE
SDIHO263552	DI 3552	HO26	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO263554	DI 3554	HO26	11/26/2014	IC	BL	Area Survey 11/26/14-PUT DG IN DRAIN
SDIHO263556	DI 3556	HO26	11/19/2014	IC	BL	Area Survey 11/19/14
SDIHO263572	DI 3572	HO26	11/19/2014	IC	BL	
SDIHO263592	DI 3592	HO26	11/19/2014	IC	BL	Area Survey 11/19/14
SDIHO273632	DI 3632	HO27	11/19/2014	IC	BL	Area Survey 11/19/14
SDIHO293204	DI 3204	HO29	11/19/2014	IC	BL	Area Survey 11/19/14- REPLACE DG
SDIHO293206	DI 3206	HO29	11/19/2014	IC	BL	Area Survey 11/19/14
SDIHO293222	DI 3222	HO29	11/19/2014	NC	BL	
SDIHO293224	DI 3224	HO29	11/19/2014	IC	BL	Area Survey 11/19/14 - REPLACE DG
SDIHO293612	DI 3612	HO29	11/19/2014	DG NC	BL	
SDIHO293620	DI 3620	HO29	11/19/2014	SC	BL	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO293672	DI 3672	HO29	11/19/2014	SC	BL	
SDIHO303810	DI 3810	HO30				T - CHEVRON
SDIHO303812	DI 3812	HO30				T - CHEVRON
SDIHO303814	DI 3814	HO30				T - CHEVRON
SDIHO303818	DI 3818	HO30				T - CHEVRON
SDIHO303820	DI 3820	HO30				T - CHEVRON
SDIHO303822	DI 3822	HO30				T - CHEVRON
SDIHO303824	DI 3824	HO30				T - CHEVRON
SDIHO303826	DI 3826	HO30				T - CHEVRON
SDIHO303842	DI 3842	HO30				T - CHEVRON
SDIHO303844	DI 3844	HO30				T - CHEVRON
SDIHO313902	DI 3902	HO31	11/28/2014	SC	BL	
SDIHO313904	DI 3904	HO30	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313922	DI 3922	HO31	11/28/2014	SC	BL	
SDIHO313924	DI 3924	HO30	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313954	DI 3954	HO31	12/3/2014	SC		
SDIHO313958	DI 3958	HO31	12/3/2014	SC		
SDIHO313962	DI 3962	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313964	DI 3964	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313966	DI 3966	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313968	DI 3968	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313970	DI 3970	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO313972	DI 3972	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO314002	DI 4002	HO31	12/3/2014	SC		
SDIHO314012	DI 4012	HO31	12/3/2014	SC		
SDIHO314016	DI 4016	HO31	12/3/2014	SC		
SDIHO314040	DI 4040	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314042	DI 4042	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314044	DI 4044	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314046	DI 4046	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314048	DI 4048	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314050	DI 4050	HO31	11/28/2014	SC	BL	TRENCH DRAIN
SDIHO314060	DI 4060	HO31	12/1/2014	SC	BL	
SDIHO314062	DI 4062	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314064	DI 4064	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314066	DI 4066	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314068	DI 4068	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314070	DI 4070	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314072	DI 4072	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314074	DI 4074	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314076	DI 4076	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314078	DI 4078	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314080	DI 4080	HO31	12/1/2014	SC	BL	CONCRETE COVER

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO314082	DI 4082	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314100	DI 4100	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314102	DI 4102	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314104	DI 4104	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314106	DI 4106	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314108	DI 4108	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314110	DI 4110	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314112	DI 4112	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314114	DI 4114	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314116	DI 4116	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314118	DI 4118	HO31	12/1/2014	SC	BL	CONCRETE COVER
SDIHO314130	DI 4130	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO314132	DI 4132	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO314134	DI 4134	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO314136	DI 4136	HO31	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO314142	DI 4142	HO31	12/3/2014	SC	BL	
SDIHO314152	DI 4152	HO31	11/28/2014	IC	BL	Area Survey 11/28/14 - REPLACE DG
SDIHO314154	DI 4154	HO31	12/3/2014	SC	BL	
SDIHO314160	DI 4160	HO31	12/3/2014	SC	BL	
SDIHO314162	DI 4162	HO32	12/3/2014	SC	BL	
SDIHO314390	DI 4390	HO31	11/28/2014		BL	TRENCH DRAIN
SDIHO314392	DI 4392	HO31			BL	T - HONO FREIGHT
SDIHO314396	DI 4396	HO31			BL	T - HONO FREIGHT
SDIHO314398	DI 4398	HO31			BL	T - HONO FREIGHT
SDIHO314400	DI 4400	HO31			BL	T - HONO FREIGHT
SDIHO314402	DI 4402	HO31			BL	T - HONO FREIGHT
SDIHO324182	DI 4182	HO32	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO324202	DI 4202	HO32	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO324204	DI 4204	HO32	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO324208	DI 4208	HO32	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO324232	DI 4232	HO32	12/3/2014	SC	BL	
SDIHO324234	DI 4234	HO32	12/3/2014	SC	BL	
SDIHO324236	DI 4236	HO32	12/3/2014	SC	BL	
SDIHO324242	DI 4242	HO32	12/3/2014	SC	BL	
SDIHO324244	DI 4244	HO32	12/3/2014	SC	BL	
SDIHO324246	DI 4246	HO32	12/3/2014	SC	BL	
SDIHO324260	DI 4260	HO32	11/28/2014	IC	BL	Area Srvy 11/28/14REPLACE GRILL & DG
SDIHO324262	DI 4262	HO32	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO324264	DI 4264	HO32	12/3/2014	SC	BL	
SDIHO324280	DI 4280	HO32	12/3/2014	SC	BL	
SDIHO344302	DI 4302	HO34	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO344312	DI 4312	HO34	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO344322	DI 4322	HO34	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO344324	DI 4324	HO33	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO344326	DI 4326	HO33	11/28/2014	SC		
SDIHO344328	DI 4328	HO33	11/28/2014	IC	BL	Area Survey 11/28/14-PUT DG IN DRAIN
SDIHO344352	DI 4352	HO34	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO344362	DI 4362	HO34	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO344412	DI 4412	HO34	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO354452	DI 4452	HO35	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO354462	DI 4462	HO35	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO354472	DI 4472	HO35	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO354474	DI 4474	HO35	11/28/2014	NC	BL	T - CONSTRUCTION PROJECT
SDIHO354476	DI 4476	HO36				T
SDIHO364604	DI 4604	HO36				T
SDIHO384606	DI 4606	HO38				T
SDIHO384608	DI 4608	HO38				T
SDIHO384704	DI 4704	HO38				T
SDIHO384706	DI 4706	HO38				T
SDIHO384708	DI 4708	HO38				T
SDIHO384710	DI 4710	HO38				T
SDIHO384806	DI 4806	HO38				T
SDIHO384808	DI 4808	HO38				T
SDIHO384812	DI 4812	HO38				T
SDIHO384814	DI 4814	HO38				T
SDIHO384816	DI 4816	HO38				T
SDIHO384820	DI 4820	HO38				T
SDIHO384822	DI 4822	HO38				T
SDIHO384902	DI 4902	HO38				T
SDIHO385102	DI 5102	H38				T
SDIHO385152	DI 5152	HO38				T
SDIHO385154	DI 5154	HO38				T
SDIHO395508	DI 5508	HO39	11/15/2014	CF	PS/MH	
SDIHO395510	DI 5510	HO39	11/15/2014		PS/MH	NOT CLEANED SINCE 5/14
SDIHO395512	DI 5512	HO39	11/15/2014	NC	PS/MH	
SDIHO395514	DI 5514	HO39	11/15/2014	NC	PS/MH	
SDIHO395516	DI 5516	HO39	11/15/2014	NC	PS/MH	
SDIHO395592	DI 5592	HO39	11/15/2014	NC	PS/MH	
SDIHO395596	DI 5596	HO39	11/15/2014	NC	PS/MH	
SDIHO395612	DI 5612	HO39	11/15/2014	NC	PS/MH	CURB DRAIN
SDIHO405608	DI 5608	HO40	11/15/2014	NC	PS/MH	
SDIHO405610	DI 5610	HO40	11/15/2014	NC	PS/MH	CURB DRAIN
SDIHO405708	DI 5708	HO40	11/15/2014	NDG NC	PS/MH	
SDIHO405712	DI 5712	HO40	11/15/2014	NDG NC	PS/MH	
SDIHO405722	DI 5722	HO40	11/15/2014	NDG NC	PS/MH	
SDIHO405802	DI 5802	HO40	11/15/2014	NC	PS/MH	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO406562	DI 6562	HO40	11/15/2014	NC	PS/MH	
SDIHO416572	DI 6572	HO41	11/15/2014	NC	PS/MH	
SDIHO416574	DI 6574	HO41	11/15/2014	NC	PS/MH	
SDIHO416982	DI 6982	HO41				T - SHIPYARD
SDIHO416984	DI 6984	HO41				T - SHIPYARD
SDIHO416992	DI 6992	HO41				T - SHIPYARD
SDIHO416994	DI 6994	HO41				T - SHIPYARD
SDIHO417002	DI 7002	HO41				T - SHIPYARD
SDIHO417004	DI 7004	HO41				T - SHIPYARD
SDIHO417012	DI 7012	HO41				T - SHIPYARD
SDIHO417014	DI 7014	HO41				T - SHIPYARD
SDIHO426972	DI 6972	HO42E				KMR PROJECT
SDIHO427032	DI 7032	HO41				KMR PROJECT
SDIHO427034	DI 7034	HO41				KMR PROJECT
SDIHO427036	DI 7036	HO41				KMR PROJECT
SDIHO427038	DI 7038	HO41				KMR PROJECT
SDIHO427040	DI 7040	HO41				KMR PROJECT
SDIHO427200	DI 7200	HO42				KMR PROJECT
SDIHO427202	DI 7202	HO42				KMR PROJECT
SDIHO427204	DI 7204	HO42				KMR PROJECT
SDIHO427206	DI 7206	HO42				KMR PROJECT
SDIHO427220	DI 7220	HO42				KMR PROJECT
SDIHO427222	DI 7222	HO42				KMR PROJECT
SDIHO427224	DI 7224	HO42				KMR PROJECT
SDIHO427226	DI 7226	HO42				KMR PROJECT
SDIHO427306	DI 7306	HO42E				KMR PROJECT
SDIHO427308	DI 7308	HO42E				KMR PROJECT
SDIHO427310	DI 7310	HO42E				KMR PROJECT
SDIHO427312	DI 7312	HO42E				KMR PROJECT
SDIHO427314	DI 7314	HO42E				KMR PROJECT
SDIHO427316	DI 7316	HO42E				KMR PROJECT
SDIHO427318	DI 7318	HO42E				KMR PROJECT
SDIHO427320	DI 7320	HO42				KMR PROJECT
SDIHO427350	DI 7350	HO42E				KMR PROJECT
SDIHO427352	DI 7352	HO42E				KMR PROJECT
SDIHO427562	DI 7562	HO42E				KMR PROJECT
SDIHO427582	DI 7582	HO42E				KMR PROJECT
SDIHO427584	DI 7584	HO42E				KMR PROJECT
SDIHO427602	DI 7602	HO42E				KMR PROJECT
SDIHO427604	DI 7604	HO42E				KMR PROJECT
SDIHO427606	DI 7606	HO42E				KMR PROJECT
SDIHO427608	DI 7608	HO42E				KMR PROJECT
SDIHO427610	DI 7610	HO42E				KMR PROJECT

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO427620	DI 7620	HO42E				KMR PROJECT
SDIHO427622	DI 7622	HO42E				KMR PROJECT
SDIHO427624	DI 7624	HO42E				KMR PROJECT
SDIHO427626	DI 7626	HO42E				KMR PROJECT
SDIHO427630	DI 7630	HO42E				KMR PROJECT
SDIHO427640	DI 7640	HO42E				KMR PROJECT
SDIHO427642	DI 7642	HO42E				KMR PROJECT
SDIHO427700	DI 7700	HO42E				KMR PROJECT
SDIHO427708	DI 7708	HO42E				KMR PROJECT
SDIHO427710	DI 7710	HO42E				KMR PROJECT
SDIHO427722	DI 7722	HO42E				KMR PROJECT
SDIHO427724	DI 7724	HO42E				KMR PROJECT
SDIHO427726	DI 7726	HO42E				KMR PROJECT
SDIHO427728	DI 7728	HO42E				KMR PROJECT
SDIHO427730	DI 7730	HO42E				KMR PROJECT
SDIHO427732	DI 7732	HO42E				KMR PROJECT
SDIHO427734	DI 7734	HO42E				KMR PROJECT
SDIHO427736	DI 7736	HO42E				KMR PROJECT
SDIHO427738	DI 7738	HO42E				KMR PROJECT
SDIHO427740	DI 7740	HO42E				KMR PROJECT
SDIHO427742	DI 7742	HO42E				KMR PROJECT
SDIHO427744	DI 7744	HO42E				KMR PROJECT
SDIHO427746	DI 7746	HO42E				KMR PROJECT
SDIHO427748	DI 7748	HO42E				KMR PROJECT
SDIHO427750	DI 7750	HO42E				KMR PROJECT
SDIHO427752	DI 7752	HO42E				KMR PROJECT
SDIHO427754	DI 7754	HO42E				KMR PROJECT
SDIHO427756	DI 7756	HO42E				KMR PROJECT
SDIHO427758	DI 7758	HO42E				KMR PROJECT
SDIHO427760	DI 7760	HO42E				KMR PROJECT
SDIHO517802	DI 7802	HO51	11/15/2014	IC	MH/PS	Area Survey-11/15/14
SDIHO517804	DI 7804	HO51	11/15/2014	NC	MH/PS	
SDIHO517806	DI 7806	HO51	11/15/2014	NC	MH/PS	
SDIHO517810	DI 7810	HO51	11/15/2015	CF	MH/PS	Under Containers
SDIHO517852	DI 7852	HO51A	11/15/2014	NC	MH/PS	
SDIHO517854	DI 7854	HO51	11/15/2014	CF	MH/PS	Under Containers
SDIHO517882	DI 7882	HO51A	11/15/2014	NC	MH/PS	
SDIHO517884	DI 7884	HO51A	11/15/2014	NDG NC	MH/PS	
SDIHO517886	DI 7886	HO51	11/15/2014	NDG NC	MH/PS	
SDIHO517888	DI 7888	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO517890	DI 7890	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO517892	DI 7892	HO51	11/22/2014	NC	MH/PS	
SDIHO517894	DI 7894	HO51	11/22/2014	NDG NC	MH/PS	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO517896	DI 7896	HO51	11/22/2014	NC	MH/PS	
SDIHO517898	DI 7898	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO517900	DI 7900	HO51	11/22/2014	NC	MH/PS	
SDIHO517902	DI 7902	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO517926	DI 7926	HO51	11/22/2014	NC	MH/PS	
SDIHO517930	DI 7930	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO517932	DI 7932	HO51	11/22/2014	NC	MH/PS	
SDIHO517940	DI 7940	HO51	11/18/2014	NC	BB/PS	
SDIHO517942	DI 7942	HO51	11/18/2014	NC	BB/PS	
SDIHO517944	DI 7944	HO51	11/18/2014	NC	BB/PS	
SDIHO517962	DI 7962	HO51A	11/15/2014	NC	MH/PS	
SDIHO517964	DI 7964	HO51	11/15/2014	CF	MH/PS	Under Containers
SDIHO518002	DI 8002	HO51	11/15/2014	NC	MH/PS	
SDIHO518004	DI 8004	HO51	11/15/2014	CF	MH/PS	Under Containers
SDIHO518010	DI 8010	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO518012	DI 8012	HO51	11/22/2014	NC	MH/PS	
SDIHO518026	DI 8026	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO518052	DI 8052	HO51	11/22/2014	NC	MH/PS	
SDIHO518054	DI 8054	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO518056	DI 8056	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518058	DI 8058	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518072	DI 8072	HO51B	11/15/2014	NC	MH/PS	
SDIHO518074	DI 8074	HO51B	11/15/2014	NC	MH/PS	
SDIHO518082	DI 8082	HO51B	11/15/2014	NC	MH/PS	
SDIHO518084	DI 8084	HO51B	11/15/2014	CF	MH/PS	Under Containers
SDIHO518140	DI 8140	HO51	11/18/2014	NC	BB/PS	
SDIHO518146	DI 8146	HO51	11/18/2014	CF	BB/PS	Under Containers
SDIHO518150	DI 8150	HO51	11/18/14	NC	BB/PS	
SDIHO518152	DI 8152	HO51	11/18/2014	NC	BB/PS	
SDIHO518260	DI 8260	HO51	11/18/2014	NC	BB/PS	
SDIHO518262	DI 8262	HO51	11/18/2014	NC	BB/PS	
SDIHO518360	DI 8360	HO51	11/18/2014	NC	BB/PS	
SDIHO518364	DI 8364	HO51	11/18/2014	CF	BB/PS	Under Auto Racks
SDIHO518366	DI 8366	HO51	11/18/2014	NC	BB/PS	
SDIHO518370	DI 8370	HO51	11/22/2014	CF	MH/PS	
SDIHO518372	DI 8372	HO51	11/22/2014	CF	MH/PS	Under Containers
SDIHO518374	DI 8374	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO518376	DI 8376	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518378	DI 8378	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518382	DI 8382	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518400	DI 8400	HO51	11/22/2014	NDG NC	MH/PS	
SDIHO518402	DI 8402	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518404	DI 8404	HO51	11/22/2014	NC	MH/PS	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO518408	DI 8408	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518410	DI 8410	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518414	DI 8414	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518416	DI 8416	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO518464	DI 8464	HO51	11/18/2014	NC	BB/PS	
SDIHO518466	DI 8466	HO51	11/18/114	NC	BB/PS	
SDIHO518468	DI 8468	HO51	11/18/2014	NC	BB/PS	
SDIHO518470	DI 8470	HO51	11/18/2014	NC	BB/PS	
SDIHO518472	DI 8472	HO51	11/18/2014	NC	BB/PS	
SDIHO518474	DI 8474	HO51	11/18/2014	NC	BB/PS	
SDIHO518476	DI 8476	HO51	11/14/2014	NDG NC	BB/PS	
SDIHO528510	DI 8510	HO52	11/18/2014	NC	BB/PS	
SDIHO528660	DI 8660	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528662	DI 8662	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528664	DI 8664	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528680	DI 8680	HO52	11/22/2014	CF	MH/PS	Under Containers
SDIHO528682	DI 8682	HO52	11/22/2014	CF	MH/PS	Under Containers
SDIHO528684	DI 8684	HO52	11/22/2014	CF	MH/PS	Under Containers
SDIHO528688	DI 8688	HO52	11/22/2014	CF	MH/PS	Under Containers
SDIHO528690	DI 8690	HO52	11/14/2014	CF	BB/PS	Under Containers
SDIHO528692	DI 8692	HO52	11/14/2014	CF	BB/PS	Under Containers
SDIHO528710	DI 8710	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528712	DI 8712	HO52	11/14/2014	NC	BB/PS	
SDIHO528714	DI 8714	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528716	DI 8716	HO52	11/14/2014	NC	BB/PS	
SDIHO528718	DI 8718	HO52	11/17/2014	NDG NC	BB	
SDIHO528730	DI 8730	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528732	DI 8732	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528734	DI 8734	HO52	11/14/2014	NDG NC	BB/PS	
SDIHO528736	DI 8736	HO52	11/17/2014	NC	BB	
SDIHO528738	DI 8738	HO52	11/17/2014	CF	BB	Under F/R
SDIHO528874	DI 8874	HO52	11/17/2014	NC	BB	
SDIHO528876	DI 8876	HO52	11/17/2014	NC	BB	
SDIHO528880	DI 8880	HO52	11/17/2014	NC	BB	
SDIHO538668	DI 8668	HO53	11/14/2014	NC	BB/PS	
SDIHO538670	DI 8670	HO53	11/18/2014	NC	BB/PS	
SDIHO538672	DI 8672	HO53	11/18/2014	NC	BB/PS	
SDIHO538696	DI 8696	HO53	11/14/2014	CF	BB/PS	Under Containers
SDIHO538698	DI 8698	HO53	11/14/2014	NDG NC	BB/PS	
SDIHO538700	DI 8700	HO53	11/17/2014	CF	BB	Under Containers
SDIHO538792	DI 8792	HO53	11/17/2014	NC	BB	
SDIHO538794	DI 8794	HO53	11/17/2014	NDG NC	BB	
SDIHO538796	DI 8796	HO53	11/17/2014	NC	BB	

Storm Drain Inlets Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDIHO538798	DI 8798	HO53	11/17/2014	NC	BB	
SDIHO538868	DI 8868	HO53	11/14/2014	CF	BB/PS	Under Containers
SDIHO538890	DI 8890	HO53	11/17/2014	NC	BB	
SDIHO538902	DI 8902	HO53	11/15/2014	NC	MH/PS	
SDIHO538904	DI 8904	HO53	11/18/2014	NC	BB/PS	
SDIHO538906	DI 8906	HO53	11/18/14	NC	BB/PS	
SDIHO538908	DI 8908	HO53	11/17/2014	NC	BB	
SDIHO538910	DI 8910	HO53	11/17/2014	CF	BB	Under Containers
SDIHO538912	DI 8912	HO53	11/17/2014	NC	BB	
SDIHO609114	DI 9114	HO60	11/21/2014	IC	BB	T - Area Survey-11/21/14
SDIHO609116	DI 9116	HO60	11/24/2014	IC	BB	T - Area Survey-11/21/14
SDIHO609118	DI 9118	HO60	11/21/2014	CF	BB	T
SDIHO609120	DI 9120	HO60	11/21/2014	CF	BB	T
SDIHO609156	DI 9156	HO60	11/25/2014	CF	BB	T
SDIHO609158	DI 9158	HO60	11/21/2014	IC	BB	T - Area Survey-11/21/14

Storm Drain Open Channels Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDOHO010257	SDO 0257	HO02	11/29/14	NC	MH	
SDOHO010259	SDO 0259	HO02	11/29/14	NC	MH	
SDOHO010261	SDO 0261	HO02	11/29/14	NC	MH	
SDOHO010263	SDO 0263	HO02	11/29/14	NC	MH	
SDOHO010265	SDO 0265	HO02	11/29/14	NC	MH	
SDOHO010267	SDO 0267	HO02	11/29/14	NC	MH	
SDOHO010269	SDO 0269	HO02	11/29/14	NC	MH	
SDOHO010271	SDO 0271	HO02	11/29/14	NC	MH	
SDOHO010273	SDO 0273	HO02	11/29/14	NC	MH	
SDOHO010275	SDO 0275	HO02	11/29/14	NC	MH	
SDOHO010277	SDO 0277	HO02	11/29/14	NC	MH	
SDOHO010279	SDO 0279	HO02	11/29/14	NC	MH	
SDOHO010281	SDO 0281	HO02	11/29/14	NC	MH	
SDOHO010283	SDO 0283	HO02	11/29/14	NC	MH	
SDOHO010285	SDO 0285	HO02	11/29/14	NC	MH	
SDOHO010287	SDO 0287	HO02	11/29/14	NC	MH	
SDOHO010289	SDO 0289	HO02	11/29/14	NC	MH	
SDOHO010291	SDO 0291	HO02	11/29/14	NC	MH	
SDOHO020533	SDO 0533	HO02	11/29/14	NC	MH	
SDOHO020543	SDO 0543	HO02	11/29/14	NC	MH	
SDOHO020553	SDO 0553	HO02	11/29/14	NC	MH	
SDOHO020563	SDO 0563	HO02	11/29/14	NC	MH	
SDOHO081515	SDO 1515	HO08				T
SDOHO202701	SDO 2701	HO20	11/18/14	NC	BL	
SDOHO202703	SDO 2703	HO20	11/18/14	NC	BL	
SDOHO232815	SDO 2815	HO23	11/18/14	SC	BL	
SDOHO293621	SDO 3621	HO29	11/18/14	SC	BL	
SDOHO293673	SDO 3673	HO29	11/18/14	SC	BL	
SDOHO314049	SDO 4049	HO31				NOT ON MAP
SDOHO314071	SDO 4071	HO31				NOT ON MAP
SDOHO314109	SDO 4109	HO31				NOT ON MAP
SDOHO314391	SDO 4391	HO32				NOT ON MAP
SDOHO324385	SDO 4385	HO32	12/3/2014	SC	BL	
SDOHO344381	SDO 4381	HO32	12/3/2014	SC	BL	
SDOHO354380	SDO 4380	HO32	12/3/2014	SC	BL	
SDOHO354382	SDO 4382	HO32	12/3/2014	SC	BL	
SDOHO385003	SDO 5003	HO38				T
SDOHO385057	SDO 5057	HO38				T
SDOHO385059	SDO 5059	HO38				T
SDOHO385107	SDO 5107	HO38				T
SDOHO395581	SDO 5581	HO39	11/15/14	IC	PS/MH	AREA SURVEY
SDOHO395591	SDO 5591	HO39				NOT ON MAP
SDOHO395595	SDO 5595	HO39				NOT ON MAP

Storm Drain Open Channels Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDOHO405401	SDO 5401	HO40	11/15/14	NC	PS/MH	
SDOHO405403	SDO 5403	HO40	11/15/14	NC	PS/MH	
SDOHO518031	SDO 8031	HO51C	11/22/14	NC	MH/PS	
SDOHO518181	SDO 8181	HO51C	11/19/14	CF	BB	Not found on Map
SDOHO518185	SDO 8185	HO51C	11/19/14	CF	BB	Not found on Map
SDOHO518189	SDO 8189	HO51C	11/19/14	CF	BB	Not found on Map
SDOHO518193	SDO 8193	HO51C	11/15/14	NC	MH/PS	
SDOHO518197	SDO 8197	HO51C	11/15/14	NC	MH/PS	
SDOHO518201	SDO 8201	HO51C	11/19/14	CF	BB	Not found on Map
SDOHO518205	SDO 8205	HO51C	11/15/14	NC	MH/PS	
SDOHO518209	SDO 8209	HO51C	11/15/14	NC	MH/PS	
SDOHO518231	SDO 8231	HO51	11/15/14	NC	MH/PS	11/19/14
SDOHO518235	SDO 8235	HO51	11/15/14	NC	MH/PS	
SDOHO518241	SDO 8241	HO51	11/15/14	NC	MH/PS	
SDOHO518265	SDO 8265	HO51	11/19/14	CF	BB	Not found on Map
SDOHO518269	SDO 8269	HO51	11/18/14	IC	BB/PS	Area Survey-11/18/14
SDOHO518271	SDO 8271	HO51	11/18/14	IC	BB/PS	Area Survey-11/18/14
SDOHO518277	SDO 8277	HO51	11/19/14	CF	BB	Not found on Map
SDOHO518285	SDO 8285	HO51	11/18/14	NC	BB/PS	
SDOHO518291	SDO 8291	HO51	11/18/14	NC	BB/PS	
SDOHO528213	SDO 8213	HO51C	11/19/14	CF	BB	Not found on Map
SDOHO528517	SDO 8517	HO52	1/18/2014	NC	BB/PS	
SDOHO528541	SDO 8541	HO52	11/15/14	NC	MH/PS	
SDOHO528545	SDO 8545	HO52	11/15/14	NC	MH/PS	
SDOHO528555	SDO 8555	HO52	11/15/14	NC	MH/PS	
SDOHO528559	SDO 8559	HO52	11/15/14	IC	MH/PS	Area Survey-11/15/14
SDOHO528571	SDO 8571	HO52	11/15/14	NC	MH/PS	
SDOHO528577	SDO 8577	HO52	11/15/14	NC	MH/PS	
SDOHO528601	SDO 8601	HO52	11/18/14	IC	BB/PS	Area Survey-11/18/14
SDOHO528607	SDO 8607	HO52	11/18/14	IC	BB/PS	Area Survey-11/18/14
SDOHO528611	SDO 8611	HO52	11/18/14	IC	BB/PS	Area Survey-11/18/14
SDOHO528631	SDO 8631	HO52	11/18/114	NC	BB/PS	
SDOHO528637	SDO 8637	HO52	11/18/14	NC	BB/PS	
SDOHO528641	SDO 8641	HO52	11/18/14	NC	BB/PS	
SDOHO528751	SDO 8751	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528753	SDO 8753	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528755	SDO 8755	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528757	SDO 8757	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528759	SDO 8759		11/19/14	CF	BB	Not found on Map
SDOHO528761	SDO 8761	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528763	SDO 8763	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528765	SDO 8765	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528769	SDO 8769	HO52	11/19/14	CF	BB	Not found on Map

Storm Drain Open Channels Inspection and Monitoring Report for Honolulu Harbor

Unique Drain Inlet ID (GIS)	Drain Inlet Map Label	Pier Location	Date	Comment	Initial	Remarks
SDOHO528771	SDO 8771	HO52	11/19/14	CF	BB	Not found on Map
SDOHO528877	SDO 8877	HO52	11/19/14	CF	BB	Not found on Map
SDOHO538563	SDO 8563	HO53	11/15/14	IC	MH/PS	Area Survey-11/15/14
SDOHO538579	SDO 8579	HO53	11/15/14	IC	MH/PS	Area Survey-11/15/14
SDOHO538583	SDO 8583	HO53	11/15/14	NC	MH/PS	
SDOHO538585	SDO 8585	HO53	11/15/14	NC	MH/PS	
SDOHO538613	SDO 8613	HO53	11/18/14	NC	BB/PS	
SDOHO538617	SDO 8617	HO53	11/18/14	NC	BB/PS	
SDOHO538619	SDO 8619	HO53	11/18/14	NC	BB/PS	
SDOHO538643	SDO 8643	HO53	11/18/14	NC	BB/PS	
SDOHO538647	SDO 8647	HO53	11/18/14	NC	BB/PS	
SDOHO538649	SDO 8649	HO53	11/18/114	NC	BB/PS	
SDOHO538651	SDO 8651	HO53	11/15/14	NC	MH/PS	
SDOHO609165	SDO 9165	HO60	11/14/14	NDG IC	BB/PS	T - Area Survey-11/14/14
SDOHO609181	SDO 9181	HO60	11/10/14	NDG IC	BB	T - Area Survey-11/14/14
SDOHO609185	SDO 9185	HO60	11/10/14	NDG IC	BB	T - Area Survey-11/14/14
SDOHO609189	SDO 9189	HO60	11/10/14	NDG IC	BB	T - Area Survey-11/14/14
SDOHO609190	SDO 9190	HO60	11/14/14	NG IC	BB/PS	T - Area Survey-11/14/14
SDOHO609191	SDO 9191	HO60	11/14/14	NDG IC	BB/PS	T - Area Survey-11/14/14

State of Hawaii
Department of Transportation, Harbors Division

Storm Water Drain Inspection and Monitoring Report

Legend Revised October 16, 2014

1/ Map Location Identification

Example: **P1B1** – Pier 1, Drain Box No. 1

Location 1/		Type	No.		Date:	Comment
P	1	B	1			1

Abbreviations: **P**-pier
KMR-Kapalama Military Reserve
FS-Fort Street
B-Drain Box
PD-pipe drain
SWD-storm water drain
TD-trash dumpster
T-trench drain
MH-man hole
CB-catch basin

Comments: 1 - Clean - self explanatory
2 - Silt/Gravel
3 - Silt/Gravel/Debris
4 - Silt/Gravel/Debris/Vegetation
DGIP – drain guard in place
NDG – no drain guard
NC - No cleaning necessary
SC- Schedule Cleaning
IC – ***IMMEDIATE CLEANING NECESSARY***
CF – Cannot Find

Note: - Debris – anything man-made

Example 1: 2 NC = Silt/Gravel No Cleaning Necessary

Example 2: 1 = Clean

Location 1/		Type	No.		Date:	Comment
P	1	B	1			1

Attachment 28. Spill Log

Appendix A

MONTHLY SPILL LOG

MONTH: ___JANUARY_____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	**SPILLS**	**FOR**	**January**	**2014**		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: ___FEBRUARY_____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	**SPILLS**	**FOR**	**February**	**2014**		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: March

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	SPILLS	FOR	March	2014		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: APRIL 2014

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
4/19/14	OIL	SMALL AMOUNT	UKNOWN	N		P18, Refuse Crew for OCG (Liftee, Carvalho, Nelson) used 5 soak pads to absorb oil, then put the pads in the Refuse Truck for disposal at H-Power

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: ___May_____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	**SPILLS**	**FOR**	**May**	**2014**		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: JUNE 2014

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
6/3/2014	OIL	55 GALS	UNKNOWN	N		Oil was dumped into the rubbish cans at Pier 36. Oil was noticed when Rubbish Crew dumped the cans. Took 4 bags of kitty litter and 3 pacages of pads to clean up
6/4/2014	OIL	10 GALS	UNKOWN	N		Oil in 2 X 5 gallon buckets were placed next to the rubbish cans at Pier 18. Labor Gang moved the buckets to the containment center.
6/10/2014	OIL/WATER MIX	5 GALS	PENCO	N		Oil buckets from PENCO cleaning in rubbish cans leaked 5 gallons of oil onto concrete. Rubbish Gang cleaned spill with items from containment center. Three bags of powder.
6/21/2014	HYDRALIC OIL	1/2 GAL	NONE	N		Pier 2 Papu Street Gate lift arm hydralic hose broke. Oil soaking powder was used to contain oil. 6/23/14 Labor Gang cleaned up oil soaked powder and finished cleaning oil spill by placing oi abosrbent pads throughout the spill.

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: ___JULY_____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	SPILLS	FOR	July	2014		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: ___AUGUST_____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
NO	SPILLS	FOR	August	2014		

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: SEPTEMBER

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
9/22/14	OIL	LESS THAN 1/2 GALLON	GOMES	N		LIFTEE, NELSON & ZANE UTILIZED 1/2 BAG OF OIL SOAKING POWDER AND 10 OIL SOAKING PADS. THREW THE ACCUMILATED WASTE INTO THE RUBBISH TRUCK

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: _____

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
10/28/14	HYDRAULIC OIL	25 GAL	KAHALEOUMI	N		UTILIZED 45 X OIL SOAK PADS AND 2 X BAGS OF ABSORBENT POWDER. MANUAL CLEANED WITH 8 X OCG PERSONNEL. SPILL AT DHX ALLEY WAY.

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: NOVEMBER 2014

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
11/17/14	USED OIL	5 GAL	LONG LINERS	N		UTILIZED 10 X OIL SOAK PADS AND 2 X BAG OF ABSORBENT POWDER. MANUAL CLEANED WITH 2 X OCG PERSONNEL. PIER 18 RUBBISH CANS
11/15/14	USED OIL	1/2 GAL	LONG LINERS	N		OIL SEEPING OUT OF RUBBISH CONTAINERS. UTLIZED 4 PADS AND A LITTLE ABSORBENT POWDER

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Appendix A

MONTHLY SPILL LOG

MONTH: _DECEMBER 2014___

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to storm Drain or Ocean (Y/N)	If Yes Identify Water Body	Describe Clean-up Method, Disposal and Group and Individuals Involved
12/05/14	DIESEL OIL	1/2 GAL	UNKNOWN	N		UTILIZED 3 X OIL SOAK PADS AND 1/2 X BAG OF ABSORBENT POWDER. MANUAL CLEANED WITH 2 X OCG PERSONNEL. PIER 18 CONTAINMENT CENTER

GREGORY GOMES, MAINTENANCE AND REPAIR SUPERVISOR II
STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION/HAR-OCG

Attachment 29. Trainer Qualifications

Fw: HDOT Deliverables

H Ramsey Ross to: Randy Grune 10/20/2014 09:21 AM
Cc: Randal Leong, Carter Luke, Ying J Zhang

From: H Ramsey Ross/AG/StateHiUS@STATEHIUS
To: Randy Grune/HAR/HIDOT@HIDOT,
Cc: Randal Leong/HAR/HIDOT@HIDOT, Carter Luke/HAR/HIDOT@HIDOT, Ying J Zhang/HAR/HIDOT@HIDOT

History: This message has been replied to.

Good morning,

Please see EPA comments below. They want some modifications to the stockpile management plan. And Katie Davis is fine as the trainer if she coordinates with Matt Kurano.

Thanks,

H. Ramsey Ross
Deputy Attorney General
Land/Transportation Division
465 S. King Street, Room 300
Honolulu, HI 96813

Phone: (808) 587-2983

****
Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information. Any review, use, disclosure, or distribution by unintended recipients is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

----- Forwarded by H Ramsey Ross/AG/StateHiUS on 10/20/2014 09:17 AM -----

From: "Blake, Ellen" <Blake.Ellen@epa.gov>
To: "H.Ramsey.Ross@hawaii.gov" <H.Ramsey.Ross@hawaii.gov>,
"matthew.kurano@doh.hawaii.gov" <matthew.kurano@doh.hawaii.gov>,
"Edward.G.Bohlen@hawaii.gov" <Edward.G.Bohlen@hawaii.gov>
Cc: "Lofton, Jim (ENRD)" <Jim.Lofton@usdoj.gov>
Date: 10/20/2014 07:43 AM
Subject: RE: HDOT Deliverables

Hello Ramsey,
We've received and reviewed your timely submittals for Paragraph 5 and 15.c.i. In accordance with Paragraph 6, we approve the use of Katie Davis as the trainer for the Construction and Post-construction training, with the assumption that she will work with Matt Kurano to develop the training materials.
We have comments on the Stockpile Management Plan and are not prepared to approve it at this time. The Plan only includes temporary stabilization practices and does not include a final stabilization plan with annual milestones. Please provide more information on the chemical stabilizers DOT has used on the soil stockpiles. In our experience, most soil palliatives are a temporary, maintenance intensive BMP. While we understand that the long-term plan involves finding a buyer for the material, given the

uncertainty to when or if that will happen, permanent BMPs must be implemented. DOT should evaluate BMPs used on landfills such as engineered slopes, use of a working face with temporary BMPs, and detention basins. The plan references future stockpiles and we would like more information about under what circumstances DOT would place new material at the site.
Thank you and please feel free to contact either Matt or myself with any questions,
Ellen

Ellen Blake
Office of Regional Counsel
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105
Tel: (415) 972-3496
Fax: (415) 947-3571
blake.ellen@epa.gov

The information contained in this message, including any attachments hereto, may be privileged, confidential and/or exempt from disclosure under applicable laws. It is intended for the recipient only. If you are an agency employee or consultant, please consult with the sender prior to disclosing the contents of this message to third parties. If you have received this transmission in error, please notify the sender by reply email and delete the message and any attachments.

From: H.Ramsey.Ross@hawaii.gov [mailto:H.Ramsey.Ross@hawaii.gov]
Sent: Monday, October 06, 2014 6:31 PM
To: Blake, Ellen; matthew.kurano@doh.hawaii.gov; Edward.G.Bohlen@hawaii.gov
Cc: Randy.Grune@hawaii.gov; Randal.Leong@hawaii.gov; Carter.Luke@hawaii.gov
Subject: HDOT Deliverables

Good afternoon,

We are submitting for your review the attached items required by the consent decree, as follows:

1. Consent Decree Item 5, The Stockpile Management Plan for Kalaeloa Barbers Point Harbor, please note this is required to be approved by entry of the decree; and
2. Consent Decree Item 15.c.i, The Name and qualifications of the specialized trainer for the Construction and Post-Construction programs, please note, this is required within 30-days of entry.

Please let me know if you have any questions.

Thanks,

H. Ramsey Ross
Deputy Attorney General
Land/Transportation Division
465 S. King Street, Room 300
Honolulu, HI 96813

Phone: (808) 587-2983

****
Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information. Any review, use, disclosure, or distribution by unintended recipients is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

Mary Kathryn "Katie" Davis

95-2052 Waikalani Place Apt B101, Mililani, Hawaii 96789
Cell: (808) 226-0728 | kmeisenzahl@gmail.com

Objective

Seeking to apply my environmental knowledge, work experience, training style, and enthusiasm to aid organizations in compliance with environmental regulations in the Hawaii area.

Summary

Detail oriented program manager with 7 years of applicable experience in environmental compliance consulting. Experience has included development, implementation, and data coordination for environmental programs; research of environmental regulations and permits; advice to clients in regards to business development; field work such as sample collection and site inspections; development and delivery of training programs for all levels of employees and management; written plan development; and coordination with regulatory agencies. In particular, I assisted the Honolulu International Airport in implementing a Storm Water Management Program (SWMP) that repositioned them from noncompliance to receiving accolades during their most recent Environmental Protection Agency audit. Over the duration of my career, I have developed an innate ability to accomplish diverse tasks, train individuals, lead teams, and implement successful environmental programs.

Specialties:

- Clean Water Act Compliance
- Interpretation of Environmental Regulations and Permits
- Training Personnel
- Report Writing

Educational Background

University of Rochester | Rochester, New York **|** May 2005

Bachelor of Science in Environmental Science

Highlights – Graduated Cum Laude, Senior Project: Developed sampling plan, collected surface water samples, analyzed laboratory data, and summarized results in a written report.

Experience

Project Manager | March 2007 to Present

EnviroServices & Training Center, LLC | Honolulu, Hawaii

- **Supervised 3-4 team members** to ensure tasks were completed to the clients' satisfaction, in accordance with environmental regulations, and within time and budget constraints. In addition to task management and quality review, supervisory responsibilities included invoicing and liaison with clients and company owners.
- **Developed and presented over 110 environmental training sessions** to varied audiences (class sizes range from 5 to 165) that included tenants, maintenance personnel, inspectors, engineers, consultants, contractors, and management. Training topics have included storm water BMPs for industrial and construction activities, wastewater management, eMS, SPCC, hazard communications (Hazcom), RCRA hazardous waste management, and universal waste management.
- Obtained and implemented Clean Water Act, NPDES program permits for industrial, construction, dewatering, and small municipal separate storm sewer system (MS4) discharges. Involved in all aspects of NPDES compliance for various organizations, including:
    - Coordinated, developed, and implemented a construction oversight program, which involved construction plan review, over **140 site inspections**, enforcement activities, and permanent BMP management.
    - Development of public education programs that involved the creation and distribution of brochures, posters, and handouts, development and delivery of classroom training, and creation of online training videos. Clients have agreed that the training programs significantly improved company goals for environmental compliance by creating a drastic change in workplace culture and daily mindset.
    - Development of the Honolulu Airport SWMP plan, over 100 Storm Water Pollution Control Plans, and standard operating procedures.

- Updated and maintained data in asset management systems. Used system outputs to interpret data and develop procedural changes where needed to improve the program.
- Conducted illicit discharge and outfall reconnaissance investigations.
- Assisted in planning for future compliance through the development of a retrofit feasibility study.
- Completed storm water and surface water sampling, data analysis, and submission of Discharge Monitoring Reports. Trained on-site personnel to assist with sample collection.
- Performed compliance audits and inspections for facilities with respect to environmental laws, regulations, and facility plans.
- Compiled periodic compliance reports and coordinated with regulatory agencies.

- Developed and implemented over 15 Spill Prevention, Control, and Countermeasure (SPCC) plans for facilities storing oil products in accordance with the Code of Federal Regulations, Title 40, Part 112.
- Obtained Section 401 Water Quality Certification which included the development and oversight of a Monitoring and Assessment Plan for construction activities at a former landfill. Additionally, this project included consultation with the Army Corps of Engineers and the acquisition of a Special Management Area Use permit.
- Implemented a compliance focused environmental management system (eMS) per ISO 14001.
- Completed EPCRA Tier II Reporting for chemicals exceeding designated thresholds.
- Conducted environmental sampling of groundwater, storm water, wastewater, and soil matrices. The task included developing work plans, collecting samples, and evaluating data.
- Completed Phase I and II Environmental Site Assessments, Environmental Hazard Evaluations (EHE), and Environmental Hazard Management Plans (EHMP) to assist organizations with contaminated properties.
- Conducted a facility audit for hazardous waste generator status and participated in hazardous waste collection.

Highlights – Received recognition from the Hawaii Department of Health Clean Water Branch Enforcement Officer and Hawaii Department of Transportation Airport Deputy Director for implementation and improvements made to the Honolulu International Airport storm water program. Advanced from Environmental Scientist 1 to Project Manager.

Line Officer | 2001 to 2007

United States Navy | Rochester, New York and Pearl Harbor, Hawaii

- Served as Public Affairs Officer for Navy Region Hawaii, including organizing media personnel and delivering guided tours of historic naval locations in the Pearl Harbor area.
- Lead 26 personnel in the Anti-Submarine Warfare Division onboard USS RUSSELL (DDG 59). Led numerous briefings on mission and educational topics.
- Conducted leadership training activities while on the university campus.

Highlights – Directed employment, operation, and maintenance of multi-million dollar anti-submarine equipment and weapons system. Published two articles in the Hawaii Navy News.

Intern | 2005

Frank E. VanLare Wastewater Treatment Facility | Rochester, New York

- Conducted laboratory tests on water samples for dissolved oxygen and potential contaminants.

Skills, Certifications, & Clearances

- Certified Inspector of Sediment and Erosion Control (CISEC), #565
- CISEC Instructor
- 40 Hour HAZWOPER, Confined Space, First Aid, CPR
- MS Office Suite, Adobe Suite, AutoCAD, ArcGIS, Enviance
- Honolulu International Airport, AOA Badge, Transportation Worker Identification Credential (TWIC)

Community Involvement

- Participated in invasive species removal events, trash pick-up events, providing meals, and church activities

References available upon request

Katie Davis' Training Experience (since obtaining CISEC Certification December 8, 2010)

Class Title	Topics	Audience	Location	Date(s)	Notes
State of Hawaii Dept. of Transportation, Airports Division (DOTA) Annual Construction Program Training	SWMPP, Plan Review, Inspections, Enforcement	DOTA Engineers, Management, and Inspectors; Contractors, Consultants; Construction Managers.	Honolulu International Airport	12/14/10, 10/13/11, 10/18/11, 11/14/12, 11/14/13	I've also created DVD versions of this training and one version is available on the DOTA website: http://hidot.hawaii.gov/airports/doing-business/engineering/environmental/construction-site-runoff-control-program/. I drafted the script, had a coworker record the voiceover, and compiled the DVD.
DOTA Inspector Training	Conducting tenant inspections, construction inspections, IDDE investigations	DOTA Environmental Inspectors	Honolulu International Airport	2010, 2011, 2012, 2013	I did not present this material. The training presentation was emailed to inspectors to read and answer quiz questions.
DOTA Construction Plan Reviewer and Inspector Training	Conducting construction plan reviews, construction inspections, IDDE investigations	DOTA Environmental Inspectors	Honolulu International Airport	3/20/14	Material presented along with practice entering data into the DOTA asset management system. Following the training, field construction site inspection training was conducted with individuals.
DOTA Annual Storm Water BMP Training	SWMPP, Industrial Activities BMPs, Spill Response, Tenant Inspections and Enforcement	DOTA Management and Inspectors; Airport Tenants	Honolulu International Airport	3/31/11, 5/30/13	I've also created a DVD of this training and one version is available on the DOTA website: http://hidot.hawaii.gov/airports/doing-business/engineering/environmental/. I drafted the script, had a coworker record the voiceover, and compiled the DVD.
			Dillingham Airfield, Oahu	4/20/11	

DOTA Annual Storm Water BMP Training [Cont]	SWMPP, Industrial Activities BMPs, Spill Response, Tenant Inspections and Enforcement [Cont]	DOTA Management and Inspectors; Airport Tenants [Cont]	Kalaeloa Airport, Oahu	4/18/11	
			Lihue Airport, Kauai	4/12/11, 6/26/12	
			Kahului Airport, Maui	4/21/11, 6/14/12,	
			Hilo Airport, Hawaii	5/25/11, 8/7/12	
			Kona Airport, Hawaii	5/23/11, 8/6/12	
DOTA Maintenance Baseyard Training	Industrial Activities BMPs, Spill Response, Chemical Applications, EMS, SPCC, hazardous material communications (Hazcom), RCRA hazardous waste management, and universal waste management.	DOTA Maintenance Personnel	Honolulu International Airport	3/17/11, 3/24/11, 4/19/11, 4/27/11 Handouts: 2012, 2013, 2014	Training presentations provided in 2011. For subsequent years, fact sheets were provided in lieu of presentations.
			Dillingham Airfield, Oahu	4/20/11	Training was combined with Honolulu following 2011.
			Kalaeloa Airport, Oahu	4/18/11	Training was combined with Honolulu following 2011.
			Lihue Airport, Kauai	4/12/11, 6/26/12	
			Kahului Airport, Maui	4/21/11, 6/14/12,	
			Hilo Airport, Hawaii	5/25/11, 8/7/12	
			Kona Airport, Hawaii	5/23/11, 8/6/12	
			Waimea Airport, Hawaii	5/24/11	Training was combined with Kona following 2011.
			Lanai Airport, Maui	3/16/11, 6/18/12, 10/1/13	Typically combined with DOT Highways maintenance workers.

DOTA Maintenance Baseyard Training [cont]	Industrial Activities BMPs, Spill Response, Chemical Applications, EMS, SPCC, hazardous material communications (Hazcom), RCRA hazardous waste management, and universal waste management. [cont]	DOTA Maintenance Personnel [cont]	Molokai Airport, Maui	3/23/11, 7/20/12, 10/3/13	Typically combined with DOT Highways maintenance workers.
State of Hawaii Department of Transportation Highways Division (DOT Highways) Maintenance Baseyard Training	Industrial Activities BMPs, Spill Response, Chemical Applications, Erosion and Sediment Control	DOT Highways Maintenance Baseyard Employees	Kahului, Maui	3/29/11, 6/14/12, 9/24/13	
			Kauai	4/28/11, 6/23/12, 9/11/13	
			Hilo, Hawaii	4/6/11, 6/16/12, 9/17/13	
			Waimea, Hawaii	4/7/11, 6/16/12, 9/17/13	
DOT Highways Storm Water Sampling Training	Storm Water Sampling Training Field Activity	DOT Highways Samplers	Keehi Baseyard	3/7/11	Field activity.

State of Hawaii Department of Transportation Harbors Division (DOT Harbors) Construction Inspector	Regulation Changes Review, Construction Inspections, Enforcement	DOT Harbors Engineers, Management, and Inspectors; Contractors, Consultants; Construction Managers.	Honolulu Harbor	3/31/14	
DOT Harbors Construction and Post-Construction	Regulations, Design Considerations, Temporary BMPs, Permanent BMPs	DOT Harbors Engineers, Management, and Inspectors; Contractors, Consultants; Construction Managers.	Honolulu Harbor	5/22/14	
Hawaii Army National Guard (HIARNG) Environmental Program	Industrial Activities BMPs, Spill Response, Chemical Applications, EMS, SPCC, hazardous material communications (Hazcom), RCRA hazardous waste management, and universal waste management.	HIARNG Environmental Officers, Management, and Personnel	Individual HIARNG units throughout Hawaii	7/31/13, 10/23/13, 10/30/13, 11/5/13, 11/7/13, 11/18/13, 11/20/13, 11/22/13, 12/3/13, 12/4/13, 12/10/13, 12/11/13, 2/25/14, 4/17/14 6/19/14	This is an 8 hour training class. During presentations, training was made specific to the individual unit (particularly for the SPCC module).
Wastewater Sample Collection Training	Standard procedures for collecting samples	Epsilon Systems Solutions, Inc. employees	Pearl Harbor Dry Dock	5/20/11	

DOTA Triturator Training	Procedures for operating triturator and responding to wastewater spills	Airport Triturator Users (Tenants)	Honolulu International Airport	12/21/10	This training was conducted in response to repeated illicit discharge detected at the airport.
Spill Prevention, Control, and Countermeasure Training	SPCC regulations and facility oil storage containers	Servco employees	80 Sand Island Access Road, Honolulu HI	9/21/11	
Industrial NGPC Training	Facility SWPCP, facility BMPs, and storm water monitoring procedures	McCabe, Hamilton, & Renny Co. Storm Water Training	Pier 23	5/19/14	Classroom and field activity.
Dewatering Training	Dewatering device, sampling procedures	Ideal Construction	Mapunapuna	6/5/14	Field Activity
Industrial NGPC Training	Facility SWPCP, facility BMPs, and storm water monitoring procedures	Bradley Pacific	98 Kapalulu Place	7/15/14	Classroom and field activity.

United States
CISEC, Inc.
P.O. Box 188
Parker, CO 80134
Phone
(720) 235-2783
Fax
(303) 841-6383
E-Mail
contactus@cisecinc.org
Web Site
www.cisecinc.org

Canada
CAN-CISEC
9520 Pine Valley Drive
Woodbridge, ON L4L 1A6
Phone
(289) 268-3903
E-Mail
can-cisec@trca.on.ca
Web Site
www.cisecinc.org

July 2, 2014

Ms. Katie Davis, CISEC
EnviroServices and Training Center
505 Ward Avenue, Suite 202
Honolulu Hawaii 96814

Dear Ms. Davis:

I want to thank you for submitting your application material to become a CISEC instructor and extend my congratulations on being approved by the Board of Directors to undergo a probationary period.

Each new instructor has to undergo a probationary evaluation of his/her teaching abilities with an approved trainer. Usually, at least two CISEC, Inc. training module sessions are required. At the end of each session, the trainer will provide an evaluation of your performance to the Board of Directors, who will make a decision concerning approval of your instructor status. The possibility exists that an earlier approval can occur if your trainer believes you are ready after one session.

CISEC, Inc. will pay for your transportation, hotel, and food expenses where the sessions are held. First time probationary instructors receive ¼ of the total amount of payment available for instructors based upon the attached schedule. Second time probationary instructors will have their expenses paid as well as receiving ⅓ of the total amount of payment available.

As you are aware, we are trying to get a CISEC Program going in Hawaii during November. If this occurs, then you will be part of this teaching team. I look forward to you gaining final approval so that you can teach the CISEC Program throughout Hawaii.

Finally, the Board of Directors requires its instructors be wholly dedicated to the CISEC Program As such, they expect CISEC instructors to not be teaching for any other "national inspector" certification program (e.g., CESSWI). We do not have major concerns about local programs, but would appreciate being aware of what classes you may be teaching that similar to the CISEC program.

If the above conditions are acceptable to you, we are ready to add you to our list of instructors and begin including you in our training and regular instructional rotations. Please sign below and send a copy to administrator@cisecinc.org, by fax (303-841-6383), or by US Mail.

We look forward to your participation in the CISEC program. Again, welcome aboard and congratulations on working toward being a CISEC instructor.

Yours truly,

CISEC, Inc.

Jerald S. Fifield, Ph.D., CPESC, CISEC
President

JSF/jf

Attachment: CISEC Payment Schedule

I agree to the above conditions

Katie Davis
(Signature)

7/2/14
(Date)

Dedicated to Educating and Certifying Sediment and Erosion Control Inspectors

Attachment 30. Updated Tenant Lease Agreements

DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 South Nimitz Highway
Honolulu, Hawaii 96813

REVOCABLE PERMIT NO. H-12-XXXX

The STATE OF HAWAII, hereinafter called the "STATE," hereby grants to the "PERMITTEE" permission to enter, use and occupy on a month-to-month basis, the premises described in item 2, and designated on Exhibit "A," attached hereto and made a part hereof, for the purpose(s) specified in item 4; and the PERMITTEE agrees to pay the rental specified in item 5, and to perform all other obligations imposed upon it by the Terms and Conditions hereof.

1. PERMITTEE:

2. PREMISES: _____, as shown on attached Exhibit "A"

3. LOCATION:

4. PURPOSE:

5. RENTAL:

6. SECURITY DEPOSIT:

7. EFFECTIVE DATE:

Dated at Honolulu, Hawaii, _____

BOARD OF LAND AND NATURAL RESOURCES

By _____
Chairperson and Member

Approved by the Board
at its meeting held on

_____

STATE OF HAWAII

By _____
Harbors Administrator

By _____
Its

1. **TERM.** This Permit is granted on a month-to-month basis only, for a period not to exceed one (1) year from the effective date hereof. Any renewal of this Permit shall be on a month-to-month basis for a period not to exceed one (1) year. Notice of renewal need not be reduced to writing, it being agreed that such renewal shall be automatic unless a party hereto shall give the other party ten (10) working days' notice of its intention not to renew or unless the Board of Land and Natural Resources shall fail to approve the renewal. Further, this Permit will not be renewed, or a new Permit granted should the PERMITTEE not be current in its obligations to the STATE.

2. **PERMITTEE'S PRIOR INSPECTION.** The PERMITTEE warrants that it has inspected the Premises and all improvements thereon, knows the condition thereof, accepts the premises in an "as is" condition, including soil, water, structures, and fully assumes all risks incident to the use and enjoyment of the Premises, but excluding any Hazardous Substances that may be found to exist on the premises on the commencement date of this permit and which existing hazardous substance shall be governed by paragraph 26 of this permit.

3. **SECURITY DEPOSIT.** The PERMITTEE, upon execution of this Permit, shall deposit with the STATE in legal tender or in such other form as may be acceptable to the STATE an amount equal to two (2) months' rental as security for the faithful performance on its part of all the terms and conditions, including the special terms and conditions, if any, specified in paragraph 26 of this Permit. The said deposit will be returned, without interest, to the PERMITTEE upon the termination of this Permit only if it has faithfully performed said terms and conditions to the satisfaction of the STATE. In the event the PERMITTEE does not so perform, the STATE may declare the deposit forfeited or apply it as an offset to any amounts owed by the PERMITTEE to the STATE under this Permit or to any damages or loss to the STATE caused by the breach by the PERMITTEE of such terms and conditions. The exercise of this option is without prejudice to the right of the STATE to exercise its rights under the Environmental Compliance-Permittee's Duties provision below including, but not limited to, the requirement for obtaining a surety/performance bond and the STATE's rights thereunder. Furthermore, the exercise of the STATE's rights under this provision concerning Security deposit is without prejudice to the rights of the STATE to institute action for debt or damages against the PERMITTEE or to take any other or further action against the PERMITTEE provided by law for the enforcement of the rights of the STATE under this Permit.

4. **INSURANCE.** The PERMITTEE shall, concurrently with the execution of this Permit, deliver to the STATE, a Commercial Liability Insurance policy or policies, or a certificate of insurance in lieu thereof, evidencing that such policy has been issued and is in force, with a combined single limit of not less than $1,000,000.00 for bodily injury and damage to property per occurrence and $2,000,000.00 aggregate. The specification of limits contained herein shall not be construed in any way to be a limitation on the liability of the PERMITTEE for any injury or damage or for any rent, service charge or other charges under this Permit.

Such insurance shall (a) be issued by an insurance company or surety company authorized to do business in the State of Hawaii or approved in writing by the Director of Transportation; (b) name the State of Hawaii as an additional insured; (c) provide that the Department of Transportation shall be notified at least thirty (30) days prior to any termination, cancellation or material change in its insurance coverage; (d) cover all injuries, losses or damages arising from, growing out of or

caused by any acts or omissions of the PERMITTEE, its officers, agents, employees, invitees or licenses, in connection with the PERMITTEE's use or occupancy of the Premises including any act or omission related to any Hazardous Waste; and (e) be maintained and kept in effect at the PERMITTEE's own expense throughout the life of this Permit, evidenced by furnishing the STATE without notice or demand a like certificate upon each renewal thereof.

Permittee will immediately provide written notice to the contracting department or agency should any of the insurance policies evidenced on its Certificate of Insurance form be cancelled, limited in scope, or not renewed upon expiration.

The State of Hawaii is added as an additional insured as respects to operations performed for the State of Hawaii.

It is agreed that any insurance maintained by the State of Hawaii will apply in excess of, and not contribute with, provided by this policy. **See also Environmental Compliance – Permittee's Duties below**.

5. **INDEMNITY.** The PERMITTEE shall at all times with respect to the Premises use due care for public safety and shall defend, hold harmless and indemnify the STATE, its officers, agents and employees from and against all claims or demands for damages, including claims for property damage, personal injury or death, (a) arising on the Premises, or by reason of any fire or explosion thereon; or (b) arising from, growing out of, or caused by any act or omission on the part of the PERMITTEE its officers, agents, employees, invitees or licenses in connection with the PERMITTEE'S use or occupancy of the Premises. **See also Environmental Compliance – Permittee's Duties below**.

6. **METHOD OF PAYMENT OF RENTAL AND SERVICE CHARGE ON DELINQUENT RENTALS AND OTHER CHARGES.** The monthly rental shall be payable in advance, without notice or demand, at the Harbors Division Fiscal Office on Oahu and at the appropriate District Office on Hawaii, Maui or Kauai, on the first (1st) day of each and every month during the life of this Permit.

Interest; Service Charge: Without prejudice to any other remedy available to the STATE, the PERMITTEE agrees without further notice or demand as follows: (a) To pay interest at the rate of one percent (1%) per month, compounded monthly on all delinquent payments; (b) To pay a service charge of $30.00 a month for all delinquent payments, or such other charge as may be prescribed by rules adopted by the STATE, provided that in no event shall a service charge in excess of $50.00 be levied under this Permit; and (c) That the term "delinquent payments" as used herein means fees, rents, service charges and other charges payable by the PERMITTEE to the STATE, which are not paid when due.

7. **ACCEPTANCE OF RENT NOT A WAIVER.** The acceptance of rent by the STATE shall not constitute a waiver of any breach by the PERMITTEE of any of the terms and conditions upon which this Permit is granted and to which the PERMITTEE agrees, or of the STATE's right to terminate or revoke this Permit. Failure by the STATE to insist upon strict performance hereof by the PERMITTEE, or to exercise any option herein reserved, shall not be construed as a waiver or as a relinquishment of any of its rights under this Permit.

8. **RESERVATION OF RIGHT TO INCREASE OR DECREASE RENT.** The STATE reserves the right to increase or decrease the monthly rental at any time upon thirty (30) days' advance written notice.

9. **UTILITIES AND OTHER CHARGES.** The PERMITTEE shall be responsible for and pay all charges for water, electricity, telephone and other utilities and all charges for sewer, garbage and trash disposal; where any of such services are provided by the STATE at the request of the PERMITTEE, it shall pay the STATE's charges therefore.

10. **WASTE, STRIP AND NUISANCE; MAINTENANCE.** The PERMITTEE shall not make, permit or suffer any waste, strip, nuisance or any other unlawful, improper or offensive use of the Premises.

The PERMITTEE shall maintain the Premises, improvements thereon, all equipment and other personal property of the PERMITTEE upon the Premises in a strictly clean, neat, safe, orderly and sanitary condition, free of waste, rubbish and debris and shall provide for the safe and sanitary handling and disposal of all trash, garbage and other refuse from the Premises**. See also Environmental Compliance – Permittee's Duties below**.

11. **NOTICES.** All notices, demands and requests which may be given or which are required to be given by either Party to the other pursuant to this Agreement, shall be in writing and shall be deemed effective either: (a) on the date personally delivered to the address below, as evidenced by written receipt therefore, whether or not actually received by the person to whom addressed; (b) on the third (3rd) business day after being sent, by certified or registered mail, addressed to the intended recipient at the address specified below whether or not actually received by the person to whom addressed or any return receipt is executed; (c) on the first (1st) business day after being deposited into the custody of a nationally recognized overnight delivery service such as Federal Express Corporation, DHL, Emery or Purolator, addressed to such party at the address specified below, or (d) on the date of transmission by facsimile or electronic mail to the respective numbers or addresses specified provided that a "hard" copy is post-marked the same date by first-class certified mail or sent via nationally recognized overnight delivery service to the address specified below. All notices to a Party shall be made to the address below unless the Party gives notice of a change of name or address or number, and thereafter, notices to that Party shall be given as demanded in that notice:

a. If to Lessee/Permittee: Name: _____

_____

Address: _____

City: _____

Zip Code: _____

Phone: (808) _____

Fax: (808) _____

b. If to DOT: State of Hawaii Department of Transportation
869 Punchbowl Street, 5th Floor
Honolulu, Hawaii 96813-5097
Attn: Director
Phone: (808) 587-2150
Fax: (808) 587-2167

c. With a copy to: State of Hawaii Department of Transportation
Harbors Division
Property Management Section
79 South Nimitz Highway
Honolulu, HI 96813
Attn: Harbors Administrator
Phone: (808) 587-1940
Fax: (808) 587-2504

12. **ENTRY BY STATE.** The STATE or its agents and employees may enter the Premises at all reasonable hours to inspect the Premises and determine if the PERMITTEE is complying with the terms and conditions of this Permit or for any other proper purpose. The PERMITTEE shall not make any claim for damages or set off of rent, service charge or other charges by reason or on account of such entry.

13. **REPAIRS.** The PERMITTEE shall, at its own expense, keep and maintain the Premises in condition similar to that which existed on the effective date of this Permit, ordinary wear and tear and damage by acts of God excepted. **See also Environmental Compliance – Permittee's Duties below**.

14. **STRUCTURAL IMPROVEMENTS, ALTERATIONS OR ADDITIONS.** No substantial improvement, alteration or addition of a structural nature shall be made, installed or constructed on, under or within the Premises by the PERMITTEE unless it first submits its plans and specifications thereof to the STATE for its approval and unless said plans and specifications are in fact approved in writing by the STATE. A total of four (4) sets of the proposed plans, stamped by a licensed engineer authorized to conduct business in the State, shall be submitted to the State for its review and approval. Such plans and specifications shall not be submitted unless they are in full compliance with all applicable statutes and rules and regulations. Any improvements, alterations or additions shall be accomplished at the sole cost and risk of the PERMITTEE and the STATE shall not be responsible for any damage to or destruction of any such improvements, alterations or additions or any personal property on the Premises. The Permittee shall also provide notice to the responsible agencies, including the Office of Environmental Quality, and otherwise comply with H.R.S. Chapter 343 to determine if such improvement, alteration or addition requires environmental assessments or statements. **See Environmental Compliance – Permittee's Duties below**.

15. **REMOVAL OF IMPROVEMENTS OR ADDITIONS.** The PERMITTEE may remove, at its own cost and risk, any and all improvements or additions or any portions thereof, constructed or installed by it upon the Premises, at any time during the life of this Permit or within thirty (30) days

after the termination or revocation hereof; provided that, the PERMITTEE shall give, prior to said termination or revocation, written notice of its intent to remove the same and that in the event of such removal, the Premises shall be restored by the PERMITTEE to a condition similar to that which existed immediately prior to the construction or installation thereof; ordinary wear and tear excepted and damage by acts of God excepted; provided further that, until such removal and restoration has been completed to the satisfaction of the STATE, the PERMITTEE shall continue to pay the rent set forth in item 5 herein. Failure of the PERMITTEE to give notice of intention to remove prior to termination or revocation shall be deemed to be an abandonment of said improvements or additions. **See also Environmental Compliance – Permittee's Duties below**.

16. **OPTION TO REQUIRE REMOVAL OF IMPROVEMENTS OR ADDITIONS.** The STATE, with respect to any improvements or additions or any portions thereof constructed or installed by the PERMITTEE on the Premises, reserves the right within twenty (20) working days after the date of termination or revocation of this Permit to require the PERMITTEE to remove the same at the PERMITTEE's cost and risk within thirty (30) days after said termination or revocation. Upon failure of the PERMITTEE to effect such removal within the specified time, the STATE may effect such removal, and restore the Premises to a condition similar to that which existed immediately prior to the construction or installation of the improvements or additions by its own employees or by an independent contractor and assess the PERMITTEE the total cost thereof.

17. **COMPLIANCE WITH LAWS; DISCRIMINATION PROHIBITED.** The PERMITTEE shall comply with all laws, ordinances and rules and regulations of all governmental agencies, applicable to the Premises or relating to and affecting any business or other commercial activity conducted on the Premises.

The use and enjoyment of the Premises shall not be in support of any policy which discriminates against anyone based upon race, creed, color, sex or national origin.

The PERMITTEE, for itself, its personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree as a covenant running with the land that in the event facilities are constructed, maintained, or otherwise operate on the said property described in this permit for a purpose for which a United States Department of Transportation program or activity is extended or for another purpose involving the provision of similar services or benefits. The PERMITTEE shall maintain and operate such facilities and services in compliance with all other requirements imposed pursuant to Title 49, Code A, Office of the Secretary, Part 21, Non-Discrimination in Federally-Assisted programs of the Department of Transportation-Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

That in the event of breach of any of the above non-discrimination covenants, the STATE shall have the right to terminate this permit and re-enter and repossess said land and the facilities thereon, and hold the same as if said permit had never been made or issued.

The PERMITTEE assures that it will undertake an affirmative action program as required by 14 CFR Part 152, Subpart E, to insure that no person shall on the grounds of race, creed, color, national origin, or sex, be excluded from participating in any employment activities covered in 14 CFR Part 152, Subpart E. The PERMITTEE assures that no person shall be excluded on these grounds from participating in or receiving the services or benefits of any program or activity covered

by this subpart. The PERMITTEE assures that it will require that its covered suborganizations provide assurances to the STATE that they similarly will undertake affirmative action programs and that they will require assurances from their suborganizations as required by 14 CFR Part 152, Subpart E, to the same effect.

18. **TRANSFERABILITY.** This Permit and the Premises or any part thereof, inclusive of any and all rights or obligations accruing or arising under it, shall not be sold, transferred, assigned, leased, mortgaged, sublet or otherwise alienated or encumbered in any manner whatsoever.

19. **PROPERTY TAXES.** The PERMITTEE shall pay all real property taxes lawfully assessed against the Premises.

20. **TERMINATION AND REVOCATION.** This Permit may be terminated by either party without cause upon thirty (30) days advance written notice; provided that, in the event the PERMITTEE fails to pay any rental, service charge, fees or charges when due or otherwise breaches any of the terms and conditions, the STATE may revoke this Permit upon five (5) working days written notice.

21. **RIGHT TO RE-ENTER AND ASSUME POSSESSION.** The STATE reserves the right and PERMITTEE agrees that, upon breach of any one or more of the terms and conditions of this Permit and/or termination thereof under paragraph 19 herein, the STATE may without necessity of court action, enter upon and administratively take possession of the Premises from PERMITTEE.

22. **RESTORATION.** The PERMITTEE shall within thirty (30) days of the termination or revocation of this Permit, restore the Premises, at its own cost and risk to a condition similar to that which existed prior to the effective date of this Permit, reasonable and ordinary wear and tear and damage by acts of God excepted, and peacefully surrender possession thereof to the STATE. In the event the PERMITTEE fails to effect such restoration of the Premises, the STATE may accomplish the same by its own employees or by an independent contractor and assess the PERMITTEE the total cost thereof. **See also Environmental Compliance – Permittee's Duties below**.

23. **HOLD OVER TENANCY**. If the PERMITTEE does not vacate the Premises upon the revocation or termination of the Permit, the PERMITTEE shall pay the STATE hold over rent. The rent for each day, or part of a day, during which the PERMITTEE remains in possession will be the amount payable immediately prior to the revocation or termination of the Permit. During any hold over period, the PERMITTEE shall be deemed an illegal occupant and acceptance of such payment by the STATE shall not constitute a waiver of any of the terms and conditions of this permit and shall not preclude the STATE from pursuing any other rights or remedies the STATE may be entitled to pursue under this Permit, including but not limited to assuming possession of the Premises as provided in paragraph 20 above or bringing an ejectment action for the recovery of Premises, without first giving notice to quit or making a demand for possession.

24. **COURT COSTS AND ATTORNEY'S FEES.** The PERMITTEE shall pay any and all court

costs and attorney's fees incurred or paid by the STATE in collecting rents, penalties, service charges, fees or other charges due from or payable by the PERMITTEE under this Permit in removing from the Premises the PERMITTEE and any improvements or additions constructed or installed by it thereon, or in recovering any damages or losses caused by the PERMITTEE's breach of any of the terms or conditions of this Permit.

25. **INTERPRETATION.** The use of any gender shall include all genders, the use of the singular shall include the plural and the use of the plural shall include the singular, as the context may require.

26. **CONFLICTING TERMS AND CONDITIONS.** When an inconsistency exists between these Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern.

27. **SPECIAL TERMS AND CONDITIONS.**

ENVIRONMENTAL COMPLIANCE – PERMITTEE'S DUTIES

A. Definitions.

For purposes of this Revocable Permit, Permittee agrees and understands that the following terms shall have the following meanings:

"Environmental Laws" shall mean all federal, state and local laws of every nature including statutes, ordinances, rules, regulations, codes, notices, standards, directives of every kind, guidelines, permits, licenses, authorizations, approvals, interpretations of the foregoing by any court, legislative body, agency or official, judicial decisions, orders, rulings or judgments, or rules of common law which currently are in effect or which may come into effect through enactment, issuance, promulgation, adoption or otherwise, which in any way pertain to, relate to, or have any relevance to the environment, health or safety. These environmental laws include, but are not limited to, regulations and orders of the federal Environmental Protection Agency and of the State of Hawaii Department of Health.

"Hazardous Substance" shall mean and include any chemical, substance, organic or inorganic material, controlled substance, object, condition, waste, living organism, or combination thereof which is, may be, or has been determined by proper state or federal authority under any environmental law to be, hazardous to human health or safety or detrimental to the environment. This term shall include, but not be limited to, petroleum hydrocarbons, asbestos, radon, polychlorinated biphenyls (PCBs), methane, and other materials or substances that are regulated by state or federal authorities.

B. **Permittee's Activities and Duties**.

1. **Compliance with Environmental Laws**. Permittee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the premises during the term of this Revocable Permit, and Permittee's occupancy of, and activities on, the premises. This duty shall survive the expiration or termination of this Revocable Permit which means that the Permittee's duty to comply with environmental laws shall include complying with all environmental laws, regulations and orders that may apply, or be determined to apply, to the occupancy and activities of the Permittee on the premises after the expiration or termination of this Revocable Permit. Failure of the Permittee to comply with any environmental laws shall constitutes a breach of this Revocable Permit for which the State shall be entitled, in its discretion, to terminate this Revocable Permit and take any other action at law or in equity it deems appropriate.

The Permittee shall implement and maintain the Best Management Practices (BMP) that are described in the Harbors Division Stormwater website (http://hidot.hawaii.gov/harbors/library/storm-water-management/) as applicable to its construction projects and its business activities.

2. **Hazardous Substances**. Permittee shall not use, store, treat, dispose, discharge, release, generate, create, or otherwise handle any Hazardous Substance, or allow the same by any third person, on the premises without first obtaining the written consent of the State and complying with all environmental laws, including giving all required notices, reporting to, and obtaining permits from, all appropriate authorities, and complying with all provisions of this Revocable Permit.

3. **Notice to the State**. Permittee shall keep the State fully informed at all times regarding all
Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the premises and with evidence that the Permittee has in effect all required and appropriate permits, licenses, registrations, approvals and other consents that may be required of or by federal and state authorities under all environmental laws. This duty shall also include providing immediate written notice of any investigation, enforcement action, remediation or other regulatory action, order of any type, or any legal action, initiated, issued, or any indication of an intent to do so, communicated in anyway to the Permittee by any federal or state authority or individual which relates in any way to any environmental law or any hazardous substance and the Permittee or the premises. This written notice to the State shall include the Permittee immediately providing the State with copies of all written communications from individuals or state and federal authorities, including copies of all correspondence, claims, complaints, warnings, reports, technical data and any other documents received or obtained by the Permittee. At least thirty (30) days prior to termination of this Revocable Permit, or termination of the possession of the premises by Permittee, which ever shall first occur, Permittee shall provide the State with written evidence satisfactory to the State that Permittee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Permittee that relate to the premises.

4. **Notice to Authorities**. Permittee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty (60) days prior to the termination of this Revocable Permit, or sixty (60) days prior to Permittee's termination of possession of the premises, whichever occurs first, the fact that Permittee intends to vacate the premises and terminate its operations on those premises. Permittee shall allow the agents or representatives of said authorities' access to the premises at any and all reasonable times for the purpose of inspecting the premises and taking samples of any material for inspection or testing for compliance with any environmental laws. Permittee shall provide copies of said written notices to the State at the time said notices are provided to said authorities.

5. **Disposal/Removal**. Except for materials that are lawfully sold in the ordinary course of the Permittee's business and for which the Permittee has obtained all required authorizations from appropriate authorities including the prior written permission of the State to have said substance on the premises, Permittee shall cause any hazardous substances to be removed from the premises for disposal. This duty shall include the transportation of said hazardous substance from the premises solely by duly licensed hazardous substance transporters to duly licensed facilities for final disposal as required by all applicable environmental laws. Permittee shall provide the State with copies of documentary proof, including manifests, receipts or bills of lading, which reflect that said hazardous substances have been properly removed and disposed of in accordance with all environmental laws.

6. **Environmental Investigations and Assessments**. The Permittee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the premises to determine the presence of any hazardous substance on, in, or under the premises as may be directed from time to time by the State, in its sole discretion, or by any federal or state authority. The extent and number of any environmental investigations and assessments shall be determined by the State or the federal or state authority directing said investigations and assessments to be conducted. Permittee shall retain a competent and qualified person or entity that is satisfactory to the State or governmental authority, as the case may be, to conduct said investigations and assessments. Permittee shall direct said person or entity to provide the State or governmental authority, if so requested, with testable portions of all samples of any soils, water, ground water or other material that may be obtained for testing and provide directly to the State and the governmental authority at the sole expense of the Permittee written results of all tests on said samples upon completion of said testing.

7. **Remediation**. In the event that any hazardous substance is used, stored, treated, disposed on the premises, handled, discharged, released, or determined to be present on the premises, or to have migrated from the premises, Permitteee shall, at its sole expense and cost, remediate the premises, or any location off the premises to which it is determined that the hazardous substance has migrated, of any hazardous substances. Said duty to remediate includes the removal and disposal of said hazardous substances in accordance with paragraph 5. This duty to remediate includes strictly complying with all environmental laws and directives to remediate said hazardous substance issued from the State or any federal or State governmental authority charged with enforcing the Environmental laws. This duty to remediate shall include replacement of any materials, such as soils, removed with material that is satisfactory to the State and governmental authority, as the case may be.

8. **Restoration and Surrender of Premises**. The Permittee hereby agrees to restore the premises, at its sole cost and expense, including the soil, water and structures on, in, or under the premises, to the same condition as the premises existed at the commencement of this Revocable Permit, fair wear and tear to the structures excepted. In the event Permittee does not restore the premises to the same condition as it existed at the commencement of the Revocable Permit, as determined by the State, the Permittee understands and agrees that the State may exercise its rights under the paragraph entitled State's Right to Act, and until such time as the restoration is complete to the satisfaction of the State, Permittee shall be liable for Revocable Permit rent in the same manner and amount as if the Revocable Permit had continued in effect during the period of restoration.

9. **State's Right to Act**. In the event the Permittee fails for any reason to comply with any of its duties under this Revocable Permit or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the State, the State shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Permittee hereby grants access to the premises at all reasonable hours to the State, its agents and anyone designated by the State in order to perform said acts and duties. Any cost, expense or liability of any type that may be incurred by the State in performing said acts or duties shall be the sole responsibility of the Permittee and Permittee hereby agrees to pay for those costs and expenses and indemnify the State for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of State's right to act, including litigation costs, attorneys' fees and the costs and fees for collection of said cost, expense or liability.

10. **Release and Indemnity**. Permittee hereby agrees to release the State, its officers, agents, successors and assigns from any liability of any kind, including, but not limited to, any liability for any damages, penalties, fines, judgments or assessments that may be imposed or obtained by any person, agency or governmental authority against the State and/or the Permittee by reason of any hazardous substance that may be present by whatever means on, in or under the premises. The Permittee hereby agrees to indemnify, defend with counsel suitable to the State, and hold harmless the State from any liability that may arise in connection with, or by reason of, any occurrence involving any hazardous substance that may be alleged to be connected or related in any way with the premises, the State's ownership of the premises, or this Revocable Permit, including the presence of any hazardous substance on the premises. Permittee understands and agrees that any assessments, fines or penalties that may be assessed against the Permittee or the State by reason of any environmental law violation concerning the premises shall be paid, complied with, and in every way satisfied by the Permittee and not the State.

11. **Surety/Performance Bond for Cleanup/Restoration**. At its sole cost and expense, Permittee shall provide the State with a Bond, or other security satisfactory to State, in the amount of **$ N/A** to assure removal of any hazardous substances and the remediation and restoration of the premises during the term o f, and at the conclusion of the Revocable Permit so as to comply with the terms of this Revocable Permit to the satisfaction of the State and in order to comply with environmental laws. Permittee shall provide written evidence that said Bond or security has been secured by the Permittee which evidence shall indicate the term during which said Bond or other security shall irrevocably remain in effect.

12. **Insurance.** Effective at the commencement of this Revocable Permit, Permittee shall obtain and keep in force a comprehensive liability and property damage policy of insurance issued by an insurer licensed to do business in the State of Hawaii with limits of indemnity coverage no less than $1,000,000.00 per occurrence and $2,000,000.00 aggregate. Said policy of insurance shall provide coverage for personal injury and damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Permittee or the State. Said policy of insurance shall name the State as an additional insured. Permittee shall provide proof of said insurance satisfactory to the State which shall include, at a minimum, the coverage provided and the term during which said policy shall be effective.

Permittee will immediately provide written notice to the contracting department or agency should any of the insurance policies evidenced on its Certificate of Insurance form be cancelled, limited in scope, or not renewed upon expiration.

The State of Hawaii is added as an additional insured as respects to operations performed for the State of Hawaii.

It is agreed that any insurance maintained by the State of Hawaii will apply in excess of, and not contribute with, provided by this policy.

28. **AMERICANS WITH DISABILTIES ACT**

A. The PERMITTEE shall comply with the rules and regulations relating to the Americans with Disabilities Act (ADA) 28 C.F.R. Part 36 entitled, "Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities." The ADA Title III Regulation prohibits discrimination on the basis of disability by public accommodations and requires places of public accommodation and commercial facilities to be designed, constructed, and altered in compliance with the accessibility standards established by 28 C.F.R Part 36. Plans to construct or alter the existing improvements shall be reviewed and preapproved by the STATE prior to any construction commencing. PERMITTEE's failure to comply with this provision shall be considered a breach of the terms and conditions of this agreement which may result in the revocation of this permit and termination of PERMITTEE's occupancy.