Annual Compliance Report 2011

Honolulu Harbor, Hawaii



Prepared for

Hawaii Department of Transportation Harbors Division

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature	Date	
Authorized Representative of Harbors Division	-	

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LIST OF ACRONYMS AND ABBREVIATIONS

ACR Annual Compliance Report

BMP Best Management Practice

CFR Code of Federal Regulations

Co. Company

CSRCP Construction Site Runoff Control Program

CWB Clean Water Branch
dba Doing Business As

EMS Environmental Management System

HAR Hawaii Administrative Rules

HAR-EE Harbors Division Environmental Engineering Section

HAR-OE Harbors Division Oahu District Enforcement

HDOH Hawaii Department of Health

HDOT Hawaii Department of Transportation

Honolulu Honolulu Harbor Marine Traffic Control Tower

Tower

HRS Hawaii Revised Statutes

ICC International Coastal Cleanup

IEP Inspection and Enforcement Plan

IDDE Illicit Discharge Detection and Elimination

Inc. Incorporated

KBPH Kalaeloa Barber's Point Harbor

LIDS Low Impact Development Standard

LLC Limited Liability Corporation

Ltd. Limited

MEP Maximum Extent Practicable

MS4 Municipal Separate Storm Sewer System

NA Not Applicable

NGPC Notice of General Permit Coverage

NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

LIST OF ACRONYMS AND ABBREVIATIONS, CONTINUED

NSWD Non-Stormwater Discharge

ORI Outfall Reconnaissance Inventory

SWMP Stormwater Management Plan

SWPPP Stormwater Pollution Prevention Plan

TBD To Be Determined

TMK Tax Map Key

TRP Tenant Revocable Permit

TSI Tenant Self-Inspection

USEPA U.S. Environmental Protection Agency

WESTON Weston Solutions, Inc.

1.0 INTRODUCTION



The Hawaii Department of Transportation (HDOT), Harbors Division has developed this Annual Compliance Report (ACR) for the Hawaii Department of Health (HDOH) in accordance with its Notice of General Permit Coverage (NGPC), permit number HI03KB482. The ACR details activities conducted by Harbors Division to comply with the requirements of its permit and to keep a record of progress toward annual goals.

The ACR follows the format and organization of the Storm Water Management Plan (SWMP) to facilitate comparison between planned activities and activities that were accomplished. The ACR describes efforts made by Harbors Division to implement the six

minimum control measures established by the United States Environmental Protection Agency (USEPA) and as required by the Hawaii Administrative Rules (HAR) 11-55 Appendix K and the NGPC. This report identifies activities completed during calendar year 2011 and presents areas that will be addressed in calendar year 2012. The following is included in this ACR:

- ✓ Status of Compliance;
- ✓ Assessment of the SWMP minimum control measures:
 - Public outreach and education,
 - Public involvement/participation,
 - Illicit discharge detection and elimination,
 - Construction site runoff control.
 - Post-construction stormwater management in new development and redevelopment;
 - Pollution prevention/good housekeeping;
- ✓ Modifications to the SWMP:
- ✓ Summary of Planned Activities; and
- ✓ Modifications to the Small Municipal Separate Storm Sewer System (MS4).



It is the intention of HDOT Harbors that this ACR demonstrates compliance with the following regulations listed in the NGPC:

- ✓ HAR, Chapter 11-55, Appendix K, National Pollutant Discharge Elimination System
 (NPDES) General Permit Authorizing Discharges of Storm Water and Certain NonStorm Water Discharges from Small Municipal Separate Storm Sewer Systems;
- ✓ HAR, Chapter 11-55, Appendix A, HDOH, Standard General Permit Conditions; and



✓ HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and other applicable Sections of HAR, Chapter 11-55.

1.2 STATUS OF COMPLIANCE

HAR Chapter 11-55 Appendix K authorizes discharges of storm water and certain non-stormwater discharges from small MS4s. Prior NGPC for the storm drain system was granted by HDOH in a letter dated May 19, 2003. The expiration date of that NGPC was November 19, 2007. However, in a letter dated October 19, 2007 HDOH provided for an extension of the NGPC until a notice of renewed coverage under the applicable general permit is issued or until HDOH notification is received. This extension is in accordance with HAR, Chapter 11-55-34.09(d). The original permit and letter of extension can be found in Appendix A of this document.

1.3 SWMP PERFORMANCE EVALUATION

A process for conducting an annual performance and effectiveness evaluation of the SWMP has been developed and included in this ACR. This evaluation addresses specific direct and indirect measurements in order to track the long-term progress of the SWMP towards achieving improvements in water quality.

The SWMP contains Best Management Practice (BMP) tables that outline activities that are either occurring or will be implemented in the future to ensure each of the minimum control measures are being implemented. Each BMP task is assigned a specific evaluation indicator, milestone, time frame/due date, and responsible party. The ACR is structured such that each section and BMP table corresponds with those in the SWMP. This allows the ACR to be used as an evaluation tool, addressing conformance with established performance standards, quantitative monitoring, estimates of pollutant load reductions or increases, and detailed accounting of SWMP accomplishments.

As trends are detected and the usefulness of specific BMPs or their evaluation indicators become apparent, the SWMP will be modified to ensure the program is protective of the receiving water.

Harbors has committed resources to executing programs described in the 2009 SWMP, and will continue each year to implement new initiatives based on available budget and resources. All ongoing and new activities will be reported in the ACRs.

2.0 PUBLIC EDUCATION AND OUTREACH



Permit Requirements

City and County of Honolulu Stormwater Stenciling, 2009

HAR, Chapter 11-55, Appendix K, Part 6(a)(1). Develop and implement a public education program to distribute educational materials to users of the small municipal separate storm sewer community or conduct equivalent outreach activities emphasizing each of the following:

- (B) Hazards associated with illicit discharges, and
- (A) Impacts of stormwater discharges on water bodies,
- (C) Measures the users of the permittee's small municipal separate storm sewer system can take to reduce pollutants in stormwater runoff, including, but not limited to, minimizing fertilizer application and practicing proper storage and disposal of chemicals and wastes.

2.1 TENANT EDUCATION AND OUTREACH

Harbors Division requires tenants to reduce to the maximum extent practicable (MEP) pollution in stormwater discharges and effectively prohibit unauthorized non-stormwater discharges into the MS4 through its tenant lease agreements and Tenant Revocable Permit (TRP), which are attached as Appendix B.

An inventory of tenants at Honolulu Harbor is kept on file at Harbors Oahu District Environmental Section and has been updated this year to include all current tenants. The tenant inventory identifies primary and alternate environmental contacts for each tenant. Personnel identified in the inventory are deemed responsible for implementation of storm water protection measures and BMP requirements at their facility. Please see BMP 2-1. The tenant inventory can be found in Appendix C, and has been updated to reflect changes from 2011. A summary of the tenant changes is also presented on Table 2-1.

Table 2-1 Updates to Tenant Inventory

Tenant	Status	Reason
State of Hawaii, Department of Health	Removed	Has an easement for energy corridor. No inspection is required.
State of Hawaii, Department of Transportation, Airports Division	Removed	Has an easement. No inspection is required.
Aloha Petroleum, Ltd.	Removed	The facility owns its property on Honolulu Harbor.
Garlow Petroleum	Removed	The contractor does not have a facility on Honolulu Harbor, but delivers fuel through an access agreement.
Aloha Tool dba Honolulu Recovery	Removed	Tenant terminated its lease.
Anuenue Refuse, Inc.	Removed	Tenant terminated its lease.
NCL America	Removed	Tenant has an easement for one antenna.

Harbors Division sends out an annual mailing to Small MS4 users in order to educate them on storm water quality issues, and collect data on tenant operations for updating the database. The 2011 mailing was sent on 28 September 2011and included:

- A cover letter from the HDOT Harbors Administrator
 - o Defined the regulatory background
 - Invited all tenants to attend Tenant Storm Water Pollution Prevention Awareness Training
- The Tenant Self-Inspection (TSI) form
 - Returned forms utilized for updating and tracking tenant operations and contact information
- New BMP flyers
 - o "Building and Remodeling" Flier. The flier describes sedimentation as a major concern at construction sites and requires submittal of building or remodeling plans to the HDOT Harbors Division for formal approval.
 - o "Outdoor Material Storage" Flier. The flier describes responsible practices for storing chemicals and bulk material.
 - o "Vehicle and Equipment Washing" Flier. The flier prohibits washing without approval from HDOT Harbors Division and emphasizes setting up berms to capture wash water for disposal.

A copy of this mailing and its attachments can be found in Appendix D. The TSI responses are compiled and used to update the Tenant Database (Appendix C). Future tenant mailings will be updated with new BMP flyers based on findings from the annual tenant inspections.

This year, the percentage of tenants (Honolulu and KBP Harbors combined) that were responsive to the TSI mailing was thirty-six percent. There has been a noticeable decrease in responsiveness since Harbors Division began tracking this metric in 2009. The decrease in responsiveness is most likely due to redundancy with tenant facility inspections. There appears to be little added benefit to requiring the tenants to complete this form when all of the information can be gathered during facility inspections. Harbors Division proposes modifying the mailing in 2012 by replacing the TSI with a contact information sheet, the purpose of which will be to verify that tenant contact information is up-to-date in order to ensure effective and expedient inspection scheduling and communication. Please see BMP 2-1.

On October 19 and 20, 2011 Harbors Division held annual tenant educational workshops entitled, "2011 Tenant Storm Water Pollution Prevention Awareness Training." The agenda included background on applicable regulations, followed by Harbors General Permit requirements for Small MS4s, information on pollution prevention and good housekeeping, notification of upcoming facility inspections, the structure of the Inspection and Enforcement Program (IEP), emergency contact information, and a question and answer session. A copy of the presentation and tenant attendance record are provided as Appendix E.

As a part of the tenant outreach program, the "Tenant Environmental Manager of the Year" award program has been created and implemented this year in order to provide incentive for tenant environmental managers to create positive change within their organizations. Not only does it create positive reinforcement for the organization and individual receiving the award, it demonstrates to the remaining tenants that positive change is achievable and provides concrete examples of solutions that are realistic and affordable. The award is presented with a letter that is signed by the Governor of the State of Hawaii. This year, Mr. Nathan Kapule of Young Brothers, Inc. received the award. A copy of the award certificate is included in Appendix F.

Harbors Division has maintained a hotline for storm water information and discharge reporting since October 22, 2009. Please see BMP 2-1. The hotline is reachable by dialing (808)-587-1962. The hotline number is a direct line to the Harbors Division Environmental Engineer. Harbors Environmental Section maintains records of calls, follow-up inspection dates and findings, enforcement actions taken, and resolutions in the Harbors Environmental Engineering (HAR-EE) Stormwater Hotline Occurrence Tracking (SHOT) Form (Appendix G). Although no calls were received from the public, calls from the Honolulu Marine Traffic Control Tower (Honolulu Tower) were received after environmental incidents. Please see Appendix H for the Honolulu Tower Log.

Tenant Education and Outreach BMP 2-1

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

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Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Update mailing items as outreach and education problem areas are identified and recorded	Percentage of problem areas in education/outreach addressed by updated materials	100% of identified problem areas updated	October 2011	Weston Solutions, Inc. (Weston)	Items were updated to include vehicle washing, outdoor material storage, and building and remodeling.
	Percentage of tenants' feedback about the updates that are positive	At least 50% of feedback positive	Not Applicable (NA)	Harbors Environmental Section	No feedback received.
Review TSI responses from tenants	Percentage of tenants responsive to the TSI Form	Greater than 90% of tenants	Ongoing	Harbors Environmental Section	36% of tenants responded to the TSI form (Honolulu and KBP Harbors). The TSI form will be replaced with a contact information sheet in 2012.
Mail educational materials and reporting contacts to tenants	Number of educational materials distributed	100% of tenants received educational materials and reporting contacts	Sent Sept 2011.	Harbors Environmental Section	162 mailings were sent (Honolulu and KBP Harbors).
	Responses on TSI Form show improvement in storm water awareness	Completeness of TSI forms increasing from previous year	Registered mail receipt varies	Harbors Environmental Section	TSI form completeness is adequate and has increased from previous year although less forms were returned.
Establish a reporting/complaint	Create a hotline system for	Create and maintain one hotline number	22 Sept 2009	Harbors Environmental	Hotline established.

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.
- 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
tracking system to log response & enforcement activity	reporting violations and answering questions			Section	
	Number of informational inquiries received via hotline	Number of inquiries increased from previous year	NA	Harbors Environmental Section	None received in 2011.
	Number of hours to respond to complaint from time call is received.	Respond to all reporting/complaints within 24 hrs to minimize water quality impacts or recurrent dumping	NA	Harbors Environmental Section	No calls were received in 2011.

2.2 GENERAL PUBLIC EDUCATION AND OUTREACH

Public education aims to create awareness and prompt behavioral changes. Equipped with information, the public will be less likely to contribute to water pollution as they will be able to make informed choices. Educating the public with this knowledge and contact information for appropriate authorities will increase the likelihood that a violation or accidental release will be reported. The responsibility for tenant and public education falls under the HDOT Harbors Division Environmental Engineering Section.

Public education activities includes posting signs that advise against dumping or discarding inappropriate materials where they may be carried into Harbor waters. Signs are posted at visible public locations, such as harbor entrances, comfort stations, meeting areas, and garbage collection stations. Please see BMP 2-2.

The Harbors storm water website provides information about water quality issues, emergency reporting numbers, and links to useful sections of the USEPA website. Please see BMP 2-2. The website can be accessed at http://hawaii.gov/dot/harbors.

Although no ad was placed in 2011, Harbors Division will continue to foster relationships with other State agencies and develop new programs for public education and outreach in 2012.

BMP 2-2 General Public Education and Outreach

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.
- 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

Activity Post or construct signage at visible public locations	Indicators (or Measurable Goals) Visible areas covered by "No Dumping" signs Storm drains with "flows to ocean" stenciling	Milestones Signs are hung at additional visible public locations Number of drains stenciled	Date Performed NA	Action Performed by Harbors Environmental Section Harbors Environmental	Comments Tenants were instructed to post "no washing" signs where water spigots are located. Collected contact
Post or construct signage at visible	Visible areas covered by "No Dumping" signs Storm drains with "flows to ocean"	Signs are hung at additional visible public locations Number of drains	NA	Harbors Environmental Section Harbors	Tenants were instructed to post "no washing" signs where water spigots are located. Collected contact
signage at visible	covered by "No Dumping" signs Storm drains with "flows to ocean"	at additional visible public locations Number of drains		Environmental Section Harbors	instructed to post "no washing" signs where water spigots are located. Collected contact
	Dumping" signs Storm drains with "flows to ocean"	visible public locations Number of drains	NA	Section Harbors	"no washing" signs where water spigots are located. Collected contact
public locations	Storm drains with "flows to ocean"	locations Number of drains	NA	Harbors	signs where water spigots are located. Collected contact
	"flows to ocean"	Number of drains	NA		spigots are located. Collected contact
	"flows to ocean"	drains	NA		Collected contact
	"flows to ocean"	drains	NA		
					information for
	stellerining	stelled		Section	tenant volunteers
				Section	for stenciling
					activity. Activity
					to be held in 2012.
	Track the amount of	The amount of	NA	Harbors	No materials were
	inappropriate	polluting	1111	Environmental	tracked in 2011.
	materials dumped	material		Section	Documentation
	and correlate this	generated by		Section	will be performed
	data to the timing of	dumping or			during stenciling
	public sign posting	discarding has			event and future
	to gauge any change	been reduced			events will
	of public behaviors				document dumping
	over time				reduction.
Create/update runoff	Create/update	Presentation is	Ongoing	Weston/Harbors	Presentation
water quality	presentation and	posted		Environmental	created, but not
presentations on	post to website			Section	posted to website.
Harbors Division					
website					
		<u> </u>	mp.p	** 1	*** 1
Measure	Percentage increase	Increase	TBD	Harbors	Website not yet
dissemination and	in presentation	viewing from		Environmental	updated, however
effectiveness of	viewing, measured	previous year		Section;	tenants were
water quality	by number of hits on			Harbors web	emailed the
presentation	presentation website			master	presentation
					directly upon
Set up and solicit a	Participation in	At least one of	NA	Harbors	request. Volunteer activity
volunteer cleanup or	activities.	the listed	11/1	Division	will be conducted
storm drain	activities.	activities		Division	in 2012.
stenciling activity		ucii vilios			III 2012.
stonering don vity	Number of	An increase in	20 October	Harbors	Tenants were
			2011	·	
	Partition	_		r	
		J			
					kept on record.
	employee and public participants	participation from previous year	20 October 2011	Tenants, the public	solicited at training workshop. Tenants interested in volunteering are

Goals: 1) Generate tenant awareness of stormwater pollution.

- 2) Engage tenant interest in preventing stormwater pollution.
- 3) Promote positive tenant behavior changes that reduce pollution or opportunities for pollution.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Post public	Number of	One per year	NA	Harbors	No advertisement
awareness	advertisements			Environmental	posted in 2011.
advertisement in	sponsored			Section	
local newspaper or					
magazine to educate					
the general public on					
storm water pollution					
control					

2.3 VESSEL OPERATORS EDUCATIONAL PROGRAM

Outreach to vessel operators docking at Harbors Division facilities ensures awareness of potential pollutant sources associated with vessel operation in the harbor, including vessel equipment wash water and polluted deck wash-down water, and vessel maintenance. A used oil educational flier was distributed to vessel operators and is available in the 2009 SWMP.

Marine Cargo Specialists monitor loading and unloading procedures for the major vessels in the Harbor. Their duties include tracking compliance with various aspects of the process including stormwater pollution control compliance. Harbors is developing a tracking system for Marine Cargo Specialist monitoring records, which will include storm water observations. The monitoring records will be tracked following Marine Cargo Specialist training in 2012. Please see BMP 2-3.

BMP 2-3 Expand the Educational Program to Vessel Operators

Goal:	Goal: Minimize discharge of pollutants to receiving waters within the harbors								
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments				
Marine Cargo Specialists will Monitor ship cargo loading and unloading to prevent discharges of pollutants	Frequency of monitoring activity at loading/unloading zones	Increasing frequency	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	To be implemented in 2012				
	Number of Marine Cargo Specialist Attending Annual Storm water Training	Increasing attendance	NA	Harbors Oahu District; Marine Cargo Specialists; Harbor Agents	Training conducted in 2011				

Goal:	Goal: Minimize discharge of pollutants to receiving waters within the harbors								
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments				
	Number of actions taken as a result of loading and unloading monitoring	For informational purposes	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	No actions reported from monitoring activities.				
Develop and maintain inventory of ships agents responsible for tracking vessel operators and provide educational	Percentage of ships agents in inventory	100% of ships agents identified	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Ships agents identified in tenant inspections and inventory will be developed in 2012				
materials	Percentage of ships agents receiving educational materials	100% of ships agents received materials	NA	Harbors Environmental Section; Marine Cargo Specialists; Harbor Agents	Educational materials distributed in training. Total number of agents TBD.				

2.4 INSPECTION AND PROGRESSIVE ENFORCEMENT PROGRAM

A tenant and user inspection and enforcement program has been developed as part of Harbor's Environmental Management System (EMS). This program identifies, tracks, inspects and ensures compliance with the Harbor Division's tenant lease agreements and TRPs. As part of the inspection and progressive enforcement program, the inventory of businesses and industries currently operating at the Harbor has been updated (Appendix C). Inspection and Illicit Discharge Detection and Elimination (IDDE) findings are further discussed in Section 4.0.

Harbors completed inspections of all of its Honolulu Harbor tenants in 2011, with the exception of some non-responsive tenants. Numerous attempts were made to contact these tenants, including phone calls, leaving messages, and visiting their facilities. A log of all communications is kept by Harbors Division. Harbors will pursue more aggressive action, such as contacting property management to gain access to the facilities. To date, the following tenants have not been inspected.

- ✓ Donahue, Shannon dba Paradise Equipment
- ✓ Great Pacific Wholesale Co, LLC
- ✓ Kong Enterprises, Inc

- ✓ Masuda, Richard dba Richard K. Masuda Masonry
- ✓ City and County of Honolulu, HNL Fire Department
- ✓ City and County of Honolulu HNL Police Department, Attn: Juvenile Services, P.A.L.
- ✓ Mauga-Olive Samoan Assembly of God
- ✓ Ocean Libra Corp
- ✓ Pacific Fishing and Supply, Inc
- ✓ Pryne, Ty dba H.B.N.
- ✓ Saito, Lincoln Timothy dba Kokua Recycle
- ✓ The Webe Corporation, LTD
- ✓ Trouble Free Corp.

Inspection of and outreach to commercial and industrial tenants was conducted to ensure the following:

- ✓ Continually evaluate where outreach efforts should be focused;
- ✓ The facility operator has been made aware of storm water pollution prevention requirements and the consequences of non-compliance;
- ✓ The facility operator is in compliance with its tenant lease agreement or TRPs;
- ✓ Unauthorized non-stormwater discharges do not occur at the facility; and
- ✓ Illicit connections are not present at the facility.

Harbors Division continues to respond to violations observed during these inspections in accordance with the SWMP. Inspection findings were added to the database upon completion in January 2012.

Overall, each of the tenants showed a willingness to cooperate and improve compliance with storm water regulations and the Harbor's SWMP. The 2011 Tenant inspections found a small number of tenants with illicit discharges, such as sinks that discharged onto paved surfaces and vehicle washing without proper procedures, controls, or approval by Harbors Division. In these cases tenants were told to immediately discontinue the activity and take measures to prevent the activity in the future until an approved method is proposed and approved by Harbors Division.

BMP 2-4 Inspection and Progressive Enforcement Program

Goal: Identify, track, inspect and ensure compliance with the Harbor Division's tenant lease agreements and TRPs

and TRPs							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Update inventory of businesses and industries currently operating at the Harbor	Frequency of inventory update	On-going	Annual	Harbors Division	Inventory is updated		
Create/update database to record and track tenant inspection findings, enforcement actions, and resolutions.	Database is created and functional	100% of inspections are recorded in the database	January 2012	Harbors Environmental Section	Database is located at Harbors Division office. Last updated in January 2012.		
Conduct initial inspection at all commercial and industrial tenant facilities (refer to BMP 4-2 for follow-up inspection)	Percentage of commercial and industrial tenant facilities inspected	100% for 2011.	Dec 2011; January 2012	Harbors Environmental Section, Weston, HDOT	149 of 162 (92%) Honolulu Harbor tenants were inspected in 2011. Additional non- responsive tenants were inspected in January 2012.		
Add inspection findings and enforcement taken to database	Number of sites for which inspection findings, enforcement actions, and resolutions are added to database	100% of sites	Ongoing	Harbors Environmental Section	7 tenants will receive enforcement letters as a result of the 2011 round of inspections. These enforcement actions will be added to the database.		

3.0 PUBLIC INVOLVEMENT/PARTICIPATION



Permit Requirements

http://hawaii.gov/dot/harbors

HAR, Chapter 11-55, Appendix K, Part 6(a)(2). Include users of the permittee's small municipal separate storm sewer system in developing, implementing and reviewing the stormwater management plan;

3.1 RECEIVE PUBLIC FEEDBACK ON SWMP

Public participation is intended to raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Public awareness of storm water quality issues is targeted to solicit comment by informed members, which may lead to a better and more effective plan and implementation. Harbors Division has invited public involvement and participation during the previous NGPC term by posting the SWMP to the Harbors Division website.

The current SWMP is in draft review with HDOH and USEPA Region IX; therefore no tenant or public comment has yet been solicited by Harbors Division. When the SWMP is ready for public comment, Harbors will post it on the website and request comments. Comments received will be tracked and changes will be implemented where necessary or improvements can be made. Please see BMP 3-1.

BMP 3-1 Receive Public Feedback on SWMP

Goal: To raise public consciousness of water quality issues, to create a sense of responsibility for water quality, and to lessen the likelihood that members of the public will commit actions that may lead to water quality degradation.

Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Ensure notification to harbor tenants of SWMP development capability	Percentage of tenants notified	100% of tenants notified	NA	Harbors Environmental Section	Not performed. SWMP still in draft review	
Post the Draft SWMP to the Harbors website during public	Number of people who viewed the SWMP online	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review	
comment window	Number comments received for SWMP revision	Increasing from previous year	NA	Harbors Environmental Section; Harbors web master	Not performed. SWMP still in draft review	
Develop system for tracking comments and change produced by comments	Percentage of comments tracked	100% of comments tracked	NA	Harbors Environmental Section	Not performed. SWMP still in draft review	

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION



Permit Requirements

Kaunakakai Harbor, Hawaii. February 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(3). Develop, implement and enforce a program to detect and eliminate illicit discharges that at a minimum includes the following:

- (A) Establishment of rules, ordinances or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, except those listed in section 1 that do not cause or contribute to any violations of water quality standards, into the permittee's small municipal separate storm sewer system,
- (B) Procedures to detect and eliminate illicit discharges (as defined in 40 Code of Federal Regulations (CFR) Section 122.26(b)(2)),and
- (C) Compilation of a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants and the measures to be taken to prevent these discharges into the permittee's small municipal separate storm sewer system, or reduce the amount of pollutants in these discharges.

4.1 REGULATORY MECHANISMS IN-PLACE

Existing rules and ordinances that prohibit non-stormwater discharges are in place and include the following citation from HAR Title 19, Chapter 42, Section 127: 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."

The rules are made enforceable by Title 19, Chapter 41 Section 12 which grants the HAR the full force and effect of law pursuant to sections 266-2, 266-3, 266-4, and 266-25, Hawaii Revised Statutes (HRS). The enforcement of these rules shall also be pursuant to the provisions of section 26-14.6, HRS. The violation of these rules shall be subject to penalties as set forth in section 266-25, HRS, and the Harbors' IEP.

Further, HAR Title 19 Chapter 42 Section 15 requires compliance with Federal, State, and County laws, ordinances and rules, and in particular rules of the HDOH pertaining to air and water pollution.

TRPs and tenant lease agreements incorporate language which requires compliance with all storm water quality regulations. Copies of "Lease Agreement Addendum 1, Environmental Compliance - Lessee's Duties" and an excerpt from the Standard Revocable Permit form, "Section 26. Special Terms and Conditions, Environmental Compliance - Permittee's Duties" are provided in the SWMP and Appendix B of this report.

4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN

Harbors Division has developed an IDDE plan as part of its SWMP in an effort to eliminate discharges that the established storm drainage system is not designed to accept, process, or discharge.

In accordance with its IEP, Harbors conducted inspections of 149 of the 162 tenants at the Honolulu Harbor as stated in Section 2.4. Included in this task was the creation of comprehensive lists indicating the locations and quantities of various Non-Stormwater Discharges (NSWDs), potentially polluting materials, and BMPs in use at the facilities. Drafting of the inspection finding reports is ongoing.

The resultant 2011 inspection report for each inspection will be sent to each tenant in 2012. The inspection reports contain the following:

- \checkmark An explanation the objective of the inspections;
- ✓ Tenant contact information:
- ✓ Facility description;
- ✓ A list of potential pollutant sources;
- ✓ A description of stormwater flow throughout the site;
- ✓ A summary of inspection observations;
- ✓ A tenant risk ranking;
- ✓ Any required follow-up actions; and
- ✓ A photo log documenting deficiencies and good practices.

Inspection observations include industrial activity, petroleum and solvent storage quantities, mode of storage, potential pollution sources, a description of site drainage, observed BMPs, and required BMPs.

Overall, all tenants that had discrepancies were unaware of storm water regulations pertaining to the issue and showed willingness to comply immediately. In some cases where discrepancies showed an immediate threat to water quality, tenants were asked to rectify the discrepancy during the inspection. For example, in cases where the discrepancy was an outdoor sink that discharged onto the ground, tenants were instructed to remove the sink from service immediately. Discrepancies that could not be immediately rectified were communicated to the tenant representative and forwarded to the Harbors' Environmental Section for follow-up.

A letter is sent to each recalcitrant tenant or tenant that is found to have poor practices to the extent that there is a potential negative impact to the environment. These letters are signed by the Deputy Directory of DOT Harbors Division and strongly convey that failure to meet the requirements of the letter can result in fines or termination of the tenant's revocable permit. The letter requires response within 20 days of receipt.

4.2.1 Update Storm Sewer System Map

The most up-to-date MS4 outfall map is included as Appendix I of this document. The map contains outfall locations, drain and piping locations, and outfall IDs. Sources of non-stormwater discharges were identified in the dry-weather outfall reconnaissance inventory (ORI) and documented in reports found in Appendix J. Please see BMP 4-1.

Goal: Deve	Evaluation Indicators (or Measurable Goals)		Date Performed	Action Performed by	Status/ Comments
Update outfall maps to identify sources of outfall discharges and	Percentage of outfalls that have sufficient, up-to- date information	100% of outfalls	12 through 16 December 2011	Harbors Environmental Section	Locations on maps were confirmed with GPS device.
outfall conditions	Sources of outfall discharges identified	100% of sources identified	12 through 16 December 2011	Harbors Environmental Section	Outfall discharges identified in reports. See Appendix J.

BMP 4-1 Update Storm Sewer System Map

4.2.2 Outfall Reconnaissance Inventory

An annual dry weather ORI was performed from 12 December to 16 December 2011 by the Harbors Environmental Division. The ORI was performed at low tide and describes outfall conditions, flow characteristics, and descriptions of the surrounding areas. A map of the Honolulu Harbor outfalls is included as Appendix I. The ORI forms are included as Appendix J. Please see BMP 4-2.

Important sections of the form are listed in Table below and include

- ✓ The location of the outfall;
- ✓ Date of the inspection;
- ✓ Qualitative measurement of flow at the outfall; and
- ✓ Notes that include observations of conditions, surroundings, ocean life, etc.

During the outfall inspections, measurable rainfall passed through the Harbor area and may have resulted in rain induced stormwater discharge. Observations were made during these periods and the potential effect of rainfall on the observations was taken into consideration.

Table 4-1 Honolulu Harbor Dry Weather Inspections

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
P01-01	12/15/2011	No	indicators of infert Discharge	Notes
P02-05	12/15/2011	No		
P02-06	12/15/2011	No		Tidal Influence
P02-11	12/15/2011	No		Tidal Influence
P02-13	12/15/2011	No		Tidal Influence
P03-02	12/15/2011	No		Tidal Influence
P04-00	12/12/2011	No		
P04-01	12/12/2011	No		Nearby reef fish, sea urchin, snail
P04-BOX	12/12/2011	No		Lots of mollusks, sea urchins
P05-01	12/12/2011	No	Outfall drainage spalling, cracking or chipping.	
P05-02	12/12/2011	No	Outfall damage, erosion underneath.	Is wet
P05-03	12/12/2011	No	Outfall damage, corrosion.	Wet, behind rocks
P05-07	12/12/2011	No	Outfall damage, corrosion.	Four corroded metal pipes, two flanged
P07-03	12/12/2011	No	Deposits/Stains in flow line.	
P08-01	12/12/2011	No		12' west of pier's east edge
P08-02	12/12/2011	No		30' in from east edge of pier, crabs, blocked by rubble
P08-03	12/12/2011	No		
P08-04	12/12/2011	No	Outfall drainage spalling, cracking or chipping.	
P08-05	12/12/2011	No	Outfall drainage spalling, cracking or chipping.	Pipe segments at various heights
P08-06	12/12/2011	No	Brown benthic growth in pipe.	Pipe not inverted correctly - ponding
P08-07	12/12/2011	No	Brown benthic growth in pipe.	No pipe, just pathway, sea urchin
P08-08	12/12/2011	No	Deposits/Stains in flow line.	Crab, light brown, corrosion along flow
P08-09	12/12/2011	No	Deposits/Stains in flow line, Brown benthic growth in pipe.	
P08-10	12/12/2011	No	Brown benthic growth in pipe.	

P08-11 12/12/2011 No Grouted P08-12 12/12/2011 No Brown benthic growth in pipe. P09-01 12/12/2011 No no pipe casing P09-02 12/12/2011 No Brown benthic growth in pipe. P09-03 12/12/2011 Yes Brown benthic growth in pipe. Ice maker, sink, or AC condensatio suspected. Investigation required. P09-04 12/12/2011 No Brown benthic growth in pipe. Ice maker, sink, or AC condensatio suspected. Investigation required. P09-05 12/12/2011 No Brown benthic growth in pipe. P10-01 12/12/2011 No Brown benthic growth in pipe. P10-02 12/12/2011 No Brown benthic growth in pipe. P11-03 12/12/2011 No Brown benthic growth in pipe. P11-04 12/12/2011 No Brown benthic growth in pipe. P11-05 12/12/2011 Yes Potential rainfall induced flow P11-06 12/12/2011 No Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic	
P09-01 12/12/2011 No Brown benthic growth in pipe.	
P09-02 12/12/2011 No Brown benthic growth in pipe. Ice maker, sink, or AC condensation suspected. Investigation required.	
P09-03 12/12/2011 Yes Brown benthic growth in pipe. Ice maker, sink, or AC condensation suspected. Investigation required.	
Suspected. Investigation required.	
Suspected Investigation required P09-05 12/12/2011 No Brown benthic growth in pipe P10-01 12/12/2011 No Brown benthic growth in pipe P10-02 12/12/2011 No Brown benthic growth in pipe P10-03 12/12/2011 No Brown benthic growth in pipe P11-01 12/12/2011 No Brown benthic growth in pipe P11-02 12/12/2011 No Brown benthic growth in pipe P11-03 12/12/2011 No Brown benthic growth in pipe P11-04 12/12/2011 No P11-05 12/12/2011 Yes Potential rainfall induced flow P11-06 12/12/2011 Yes Brown benthic growth in pipe Potential rainfall induced flow P11-07 12/12/2011 No P11-08 12/12/2011 Yes Brown benthic growth in pipe Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe Potential rainfall induced flow P11-08 P11-09 P11-09	1
P10-01 12/12/2011 No Brown benthic growth in pipe. P10-02 12/12/2011 No Brown benthic growth in pipe. P10-03 12/12/2011 No Brown benthic growth in pipe. P11-01 12/12/2011 No Brown benthic growth in pipe. P11-02 12/12/2011 No Brown benthic growth in pipe. P11-03 12/12/2011 No Potential rainfall induced flow P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P10-02 12/12/2011 No Brown benthic growth in pipe.	
P10-03 12/12/2011 No Brown benthic growth in pipe. P11-01 12/12/2011 No Brown benthic growth in pipe. P11-02 12/12/2011 No Brown benthic growth in pipe. P11-03 12/12/2011 No Potential rainfall induced flow P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-01 12/12/2011 No Brown benthic growth in pipe. P11-02 12/12/2011 No Brown benthic growth in pipe. P11-03 12/12/2011 No Potential rainfall induced flow P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-02 12/12/2011 No Brown benthic growth in pipe. P11-03 12/12/2011 No Potential rainfall induced flow P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 No Potential rainfall induced flow P11-06 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-03 12/12/2011 No Potential rainfall induced flow P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 No Potential rainfall induced flow P11-06 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-04 12/12/2011 Yes Potential rainfall induced flow P11-05 12/12/2011 No P11-06 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-05 12/12/2011 No P11-06 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-06 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow P11-07 12/12/2011 No P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-07 12/12/2011 No P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-08 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
0 11	
P11-09 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-10 12/12/2011 No Brown benthic growth in pipe.	
P11-11 12/12/2011 Yes Brown benthic growth in pipe. Potential rainfall induced flow	
P11-12 12/12/2011 No	
P11-13 12/12/2011 No	
P11-14 12/12/2011 No	
P11-15 12/12/2011 Yes Water quality ok. AC condensate su	spect.
P11-16 12/12/2011 Yes Green benthic growth in pipe. Flow originating from upstream of	narbor
P11-17 12/12/2011 No Wet, ponding	
P11-18 12/12/2011 No Brown benthic growth in pipe.	
P11-19 12/13/2011 No	
P11-20 12/12/2011 No	
P12-01 12/12/2011 No Evidence of cement pouring out in p	

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
P12-02	12/12/2011	No		
P12-03	12/12/2011	No		Red brick arch above
P12-04	12/12/2011	No		
P12-05	12/12/2011	No	Brown benthic growth in pipe.	Wet, previously flowing, styrofoam cups
P12-06	12/12/2011	No		Large rocks inside
P12-07	12/12/2011	No	Green benthic growth in pipe.	Corroding, blocked by rocks, sediment, trash
P12-08	12/12/2011	No	Brown benthic growth in pipe.	Blocked by rocks, close to sea level
P15-01	12/16/2011	No		
P19-01	12/16/2011	Yes	Rancid/fishy, noticeable from a distance.	Upstream inspection with no results. 2012 follow up required.
P19-02	12/16/2011	No		
P19-03	12/16/2011	No		
P19-04	12/16/2011	No		
P19-05	12/16/2011	No		
P19-06	12/16/2011	No		
P19-07	12/16/2011	No		
P19-08	12/16/2011	No		
P20-01	12/15/2011	No		
P21-01	12/15/2011	No		
P21-01	12/14/2011	No		
P21-02	12/15/2011	No		
P21-03	12/15/2011	No		
P21-04	12/15/2011	No		
P21-05	12/15/2011	No		Filled in with concrete.
P21-06	12/15/2011	Yes		Source visible from pier 21: puddle draining slowly. Potential potable water source.
P21-07	12/15/2011	No		
P22-01	12/15/2011	No		Tire bumper in front of outfall
P23-01	12/15/2011	No	Outfall drainage spalling, cracking or chipping.	
P23-02	12/15/2011	No		
P23-03	12/15/2011	No		

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
P24-01	12/15/2011	No		
P25-01	12/15/2011	No		
P25-02	12/15/2011	No		
P26-01	12/15/2011	No		
P26-02	12/15/2011	No		
P27-01	12/15/2011	No		
P29-02	12/14/2011	No	Brown benthic growth in pipe.	
P29-03	12/14/2011	No		
P31-01	12/14/2011	Yes		Rained in the last 20 minutes. Flow from building downspouts. Clean discharge.
P31-02	12/14/2011	Yes	Cement stains, Green benthic growth in pipe.	Rained in the last 20 minutes. Flow from building downspouts. Clean discharge.
P31-03	12/14/2011	No		
P32-02	12/14/2011	Yes	Brown benthic growth in pipe.	
P32-03	12/14/2011	Yes		Related to rain event, stopped at end
P32-04	12/14/2011	No	Flow line deposits/stains, Green benthic growth in pipe.	
P33-01	12/14/2011	Yes	Flow line, oily deposits/stains.	Serviced by a lot of storm drains, roof drains. Rained 2 mins before inspection. Oil staining in parking area.
P33-02	12/14/2011	No		
P34-01	12/14/2011	No		Lots of organics (branches, leaves)
P34-02	12/14/2011	No		Sunlight (drop drain). Wet, organic debris
P34-03	12/14/2011	No	Flow line deposits/stains.	12in pipe intersects at 90° on left. Sunlight (drop drain)
P34-04	12/14/2011	No		50ft from P34-05. Sunlight. Strut 17
P34-05	12/14/2011	No		Strut 20, sunlight 4
P34-06	12/14/2011	No		Absorbent pad and boom around
P34-07	12/14/2011	No		Sunlight visible from abive
P34-08	12/14/2011	No		50ft from P35-01. 30° angle Type
P34-09	12/14/2011	No		50ft from P34-08. 30° angle Type
P34-10	12/14/2011	No		30° angle Type
P34-11	12/14/2011	No	Flow line deposits/stains.	new concrete slabs
P35-01	12/14/2011	No		Two outfalls
P35-02	12/14/2011	Yes	Brown benthic growth in pipe.	Rocks. Flow origin undetermined. 2012

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
				follow up required.
P35-03	12/14/2011	Yes		Under pier. Potentially originating off Harbor property. 2012 follow up required.
P35-04	12/14/2011	No		near oil boom
P35-05	12/14/2011	Yes	Brown benthic growth in pipe.	Healthy crabs in the area. Origin of flow not determined. 2012 follow up required.
P36-01	12/14/2011	No	Flow line deposits/stains.	Wet
P37-01	12/14/2011	Yes	Flow line deposits/stains.	Rocks, crabs, ice maker upstream. No follow up required.
P37-02	12/14/2011	Yes	Oil sheen.	Drains from parking area trench drain. Parking lot staining visible.
P38-01	12/14/2011	Yes	Brown flow line deposits/stains.	Boat parked in front. Flow from ice plant condensate. No follow up required.
P38-02	12/14/2011	No	Silty/turbid poor pool quality.	Crabs.
P38-03	12/14/2011	No		Collapsed, could not find. Traced from manhole, only rubble.
P38-04	12/14/2011	Yes	Flow line deposits/stains, silty/turbid poor pool quality, brown/green benthic growth in pipe.	Follow up to be conducted in 2012 to determine pipe layout and possible flow condition.
P38-05	12/14/2011	No		Natural erosion
P41-01	12/13/2011	No		Sheen nearby outlet but from box culvert
P41-02	12/13/2011	No		Appear to be conduits. No other outfalls in area
P41-02	12/13/2011	Yes	Light brown, slight cloudiness.	Appears to originate off Harbors property. Follow up to be conducted in 2012.
P41-03	12/13/2011	No	Oily deposit/stains, poor quality from oil sheen.	Noticeable sheen in area
P42-01	12/13/2011	Yes		Potential trickle discharge from ponding water.
P42-PSI	12/13/2011	No		20ft away from another outfall
P44/45-1	12/13/2011	No		
P44/45-2	12/13/2011	No	Outfall drainage spalling, cracking or chipping.	
P44/45-3	12/13/2011	No		
P44/45-4	12/13/2011	No		
P44/45-5	12/13/2011	Yes	Brown, highly turbid. Deposits/Stains/Poor quality from sediment.	Discharge from accumulated rainwater ponding. Tenant was notified and remedy is initiated.

Outfall	Date	Flow	Indicators of Illicit Discharge	Notes
P51A-01	12/13/2011	Yes	Poor quality from oil sheen.	Discharge from accumulated rainwater ponding. Tenant was notified and remedy is initiated.
P51A-02	12/13/2011	No		
P51A-03	12/13/2011	No		
P51A-04	12/13/2011	No		Below Horizon Lines crane #6
P51A-05	12/13/2011	No		Across Island Movers Customs Buildings, between H.L. cranes - 2 closest Ewa
P51A-06	12/13/2011	No		
P51A-07	12/13/2011	Yes		Upstream flow appears to be potentially rainfall induced. No buildings in the vicinity.
P51A-08	12/13/2011	No		
P51B-04	12/13/2011	Yes		Below Horizon Lines crane #7. Flow source undetermined. Follow up to be conducted in 2012.
P51B-05	12/13/2011	Yes		Flow source undetermined. Follow up to be conducted in 2012.
P51B-06	12/13/2011	No		
P51B-07	12/13/2011	No		
P51C-02	12/13/2011	No		
P51C-03	12/13/2011	Yes		Potentially rainfall induced. Follow up to be conducted in 2012
P51C-04	12/13/2011	No	Deposits/stains.	
P51C-05	12/13/2011	No		
P51C-06	12/13/2011	No		
P51C-07	12/13/2011	No		
P52-02	12/13/2011	No		
P52-03	12/13/2011	Yes	Deposits/stains.	Potentially rainfall induced. Follow up to be conducted in 2012
P52-04	12/13/2011	No	Deposits/stains.	
P52-05	12/13/2011	No	Deposits/stains.	
P53-01	12/13/2011	Yes		Potentially rainfall induced. Follow up to be conducted in 2012
P53-02	12/13/2011	No		
P53-03	12/13/2011	Yes	Deposits/stains.	Potentially rainfall induced. Follow up to be conducted in 2012

BMP 4-2 Outfall Reconnaissance Inventory

Goal: E	Goal: Establish and carry out procedures to identify and remove illicit discharges							
Activity Dry weather visual inspection of outfalls	Evaluation Indicators (or Measurable Goals) Percentage of outfalls inspected	Milestones 100% of outfalls inspected ontime	Date Performed December 2011	Action Performed by Harbors Environmental Section	Status/ Comments Completed			
Wet weather inspections of outfalls	Percentage of outfalls inspected	20% of outfalls inspected ontime	NA	Harbors Environmental Section	Wet weather inspection resulted from rainfall during scheduled ORI.			
Collect and analyze reports of illicit discharges.	Number of apparent illicit discharges reported.	100% of illicit discharges found	December 2011	Harbors Environmental Section	No illicit discharges were found. 2012 Follow up required			
Input inspection findings into database.	Percentage of findings input into database	100% of findings	January 2012	Harbors Environmental Section	100% of ORI findings input into database			
Ensure proper measures and controls are implemented to mitigate pollutants in permitted NSWDs	Number of permitted NSWDs found that lack proper controls	Reduced from previous year	NA	Harbors Environmental Section	No permitted NSWDs exist to date			
Document these controls in a database with tenant information and Tax Map Key (TMK)	Percentage of permitted NSWDs recorded in database	100% of identified permitted NSWDs	NA	Harbors Environmental Section	NA			

4.2.3 Illicit Discharge Reporting

The Harbors Division Environmental Section collects and records reports of storm water quality violations through its storm water hotline. Calls are recorded on the SHOT Form, available in Appendix G of this document. There were no illicit discharges reported through the hotline in 2011. The hotline will be advertised in future educational mailings and educational workshops. Please see BMP 4-3.

Harbors Grounds Maintenance personnel track illicit discharge incidents utilizing a Pier Inspection Form to record their observations. No illicit discharges were recorded by Harbors Ground Maintenance in 2011; however a monthly spill log was kept and is included as Appendix K.

The Honolulu Tower keeps a log of all incidents reported for Honolulu Harbor. The log details the date, time, location, vessel involved, and description of the findings or incident reported. A summary of the log entries pertaining to environmental or storm water issues is provided as Appendix H. Please see BMP 4-3. The Honolulu Tower is required to notify Harbors Division Environmental Section on all environmental issues.

BMP 4-3 Illicit Discharge Reporting

Goal: Encourage public education and involvement in eliminating illicit discharges					
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Collect violation reports from the Marine Traffic Control Center	Percentage of violations reported	100% of violation reports collected	Continuous	Harbors Environmental Section	Follow up conducted as needed.
Record report of illegal discharge incidents	Keep Marine Cargo Specialist inspection reports on-file.	100% of Pier inspection reports are kept	NA	Harbors Environmental Section	No inspection reports received.
Establish the illicit discharge/illegal dumping hotline	A hotline for citizens to report illegal dumping and suspicious discharges will be established in the first year. (See BMP 2-1)	Establish one hotline	22 Oct 2009	Harbors Environmental Section	Completed
Determine effectiveness of hotline	Number of illicit discharge/illegal dumps reported by citizens	Increasing from previous year	NA	Harbors Environmental Section	No calls received by Hotline in 2011
	Number of illicit discharges prevented or stopped due to call to hotline	Increasing from previous year	NA	Harbors Environmental Section	NA
Advertise hotline	The hotline will be advertised on an insert in each TSI mailing and on all stormwater pollution prevention signage	One TSI mailing insert per year and all signage	Registered mail receipt varies	Harbors Environmental Section	The hotline was advertised in TSI mailing in 2011. Quick reference cards distributed at training.

4.2.4 Inspection and Enforcement Plan

When an illicit discharge is determined to have taken place, appropriate action is taken against the responsible parties according to the IEP. This document establishes specific inspection procedures, enforcement tools, and the progressive escalation of enforcement actions with regard to the seriousness of the illicit discharge and the recalcitrance of the dischargers.

Harbors ranked each tenant based on the tenant's potential to contribute pollutants to the environment. See BMP 4-4. The results of the tenant risk rankings will be reevaluated for accuracy with each inspection. The tenant's ranking determines the frequency of inspection according to the IEP. High risk tenants will be inspected twice per year, medium ranking tenants will be inspected annually, and low ranking tenants will be inspected biannually. Risk rankings and corresponding inspection frequencies will be determined following the inspection of all Harbors tenants currently being concluded.

Harbors Division maintains records, including inspection reports, warning letters, notices of violation, resolutions, and other enforcement records, demonstrating its good faith effort to bring tenant facilities into compliance with applicable requirements. Tenants are provided with inspection findings in the form of a letter.

Enforcement actions were taken against certain tenants in 2011 as a result of inspections. See Table 4-2 and BMP 4-4. These tenants performed activities that had potential to cause or were causing illicit discharges.

Table 4-2 Record of Observations and Actions Taken

Tenant	Date of Incident	Description	Action Taken
Akana Trucking	22 December 2011	The tenant has an aggregate petroleum storage capacity greater than 1,320 gallons but has no Spill Prevention Controls and Countermeasures (SPCC) Plan.	The tenant will be sent a letter requiring an Action Plan within 20 days of receipt of the letter. The Action Plan must describe actions to be taken, responsible parties, and a schedule for corrective actions. Verbal discussions with the tenant during the inspection show that the tenant intends to reduce the petroleum storage capacity to less than 1,320 gallons.
Burlington Environmental Inc. c/o PSC Industrial Outsourcing, Inc.	22 November 2011	The tenant has an aggregate petroleum storage capacity greater than 1,320 gallons but has no Spill Prevention Controls and Countermeasures (SPCC) Plan.	The tenant was sent a letter requiring an SPCC Plan to be written and kept at the facility.
Erik Builders, Inc.	22 November 2011	The tenant uses a sink and washes vehicles without Harbors Division approval.	The tenant was sent a letter prohibiting the use of the sink and wash rack without Harbors Division Approval.
Ishikawa, Norman, and Dolores da Norman's Tractor Service	21 November 2011	The tenant has an aggregate petroleum storage capacity greater than 1,320 gallons but has no Spill Prevention Controls and Countermeasures (SPCC) Plan.	The tenant will be sent a letter requiring an Action Plan within 20 days of receipt of the letter. The Action Plan must describe actions to be taken, responsible parties, and a schedule for corrective actions. Verbal discussions with the tenant during the inspection show that the tenant intends to create an SPCC Plan using EPA's SPCC template for Tier 1 facilities.
Marine Petroleum Corporation / Fuelman, Inc.	2 December 2011	The tenant dispenses fuel from an AST without proper engineering controls or an SPCC Plan.	After the tenant refused to return phone calls, the facility was inspected without appointment and the tenant was told verbally of the requirements regarding dispensing fuel from bulk storage tanks. The tenant was sent a letter requiring an Action Plan within 20 days of receipt of the letter. The Action Plan must describe actions to be taken, responsible parties, and a schedule for corrective actions.

Tenant	Date of Incident	Description	Action Taken
Paradise Cruise, Ltd.	7 December 2011	The tenant washes limousines and buses over an open storm drain.	The tenant was told to immediately cease this activity during the inspection. In previous inspections, the storm drain was covered. As the tenant has already been issued a letter prohibiting washing activities, the tenant was sent a letter requiring an Action Plan within 20 days of receipt of the letter. The Action Plan must describe actions to be taken, responsible parties, and a schedule for corrective actions.
Quickmove, Inc.	2 December 2011	The tenant has not eliminated activities and storage practices that are potential stormwater pollutant sources. This includes the lack of controls while doing outdoor maintenance, outdoor petroleum storage, washing, and poor housekeeping.	As the tenant has already been issued a letter prohibiting these activities, the tenant was sent a letter requiring an Action Plan within 20 days of receipt of the letter. The Action Plan must describe actions to be taken, responsible parties, and a schedule for corrective actions.

BMP 4-4 Inspection and Enforcement Plan

	Goal: Eliminate illi	cit discharges th	rough inspection	on and enforcement	t.
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Establish/update ranking of tenants according to Inspection and Enforcement Manual	Percentage of tenants ranked	100% of tenants ranked	January 2012	Harbors Environmental Section	Expected to complete risk ranking of 162 tenants by the end of January 2012.
Perform initial investigation upon discovery or notification of a suspected illicit discharge or connection.	Percentage of reports investigated	100% investigated	NA	Harbors Environmental Section	Investigations were conducted during 2011 tenant inspections. 100% of reports were investigated.
Follow up investigation of illicit discharge	Percentage of investigations followed up	100% Follow up	NA	Harbors Environmental Section	100%
If enforcement action has taken place, perform follow up inspection within two weeks of initial inspection	Same as above	Same as above	NA	Harbors Environmental Section	Follow up conducted during tenant inspections.
Initiate investigation of complaints transmitted by HDOH regarding facilities within its jurisdiction	Percentage of reports investigated	100%	NA	Harbors Environmental Section	No complaints by HDOH.

4.2.5 Employee Training

Harbors Division annually provides initial and refresher NPDES training to key personnel to instruct personnel at all levels of responsibility, including Harbors Oahu District Enforcement (HAR-OE) personnel, concerning the components and goals of the SWMP. Please see BMP 4-5. The instruction addresses the following areas:

✓ Regulatory requirements,

- ✓ Materials management practices including proper storage, handling, and use of materials,
- ✓ Good housekeeping and criteria for clean working environment,
- ✓ Recognizing conditions that could lead to degraded runoff water quality,
- ✓ Identifying and notifying responsible parties,
- ✓ Taking action to correct conditions that could result in stormwater pollution,
- ✓ Warning and enforcement procedures, and
- ✓ Recording incidents.

A copy of the employee training sign in sheet can be found in Appendix M.

As stated in the SWMP, Harbors Division will train all employees who are responsible for identification, investigation, elimination, cleanup and reporting of illicit connections and other illicit discharges annually.

BMP 4-5 Employee Training

Goal: Eliminate illicit discharges through training of essential personnel.							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Develop stormwater IDDE training materials	Training materials address all relevant IDDE aspects and are up to date	IDDE is addressed	May 2011	Harbors Environmental Section, Weston	Completed. See Appendix M.		
Train all employees who are responsible for identification, investigation, elimination, clean-up, and reporting of illicit connections/discharges	Frequency of employee training Number of employees trained	Once per year Train all applicable employees	May 2011	Harbors Environmental Section, Weston	Completed.		

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5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



Permit Requirements

Drain Inlet Control, Barbers Point. January 2006.

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce storm runoff pollutants entering the permittee's small municipal separate storm sewer system from construction activities disturbing one acre or more, including construction activities less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances and other regulatory mechanism, including enforcement procedures and actions, that require erosion and sediment controls,
- (B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices,
- (C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts on water quality,
- (D) Procedures for site plan review of construction plans which incorporate consideration of potential water quality impacts,
- (E) Procedures for receipt and consideration of information submitted by the public,
- (F) Procedures for site inspection and enforcement of control measures.

5.1 CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

A Construction Site Runoff Control Program (CSRCP) has been developed and included as part of Harbor's SWMP in order to establish rules, ordinances, and other regulatory mechanisms in order to:

- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- Require erosion prevention and sediment controls at all construction projects;

- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

The CSRCP includes the following:

- ✓ Construction site plan reviews;
- ✓ Pollution prevention;
- ✓ Source identification;
- ✓ BMP implementation;
- ✓ Construction site inspections;
- ✓ Enforcement measures;
- ✓ Report of non-compliant sites; and
- ✓ Education outreach for construction site operators.

5.1.1 Required Document Review

Harbor Division's CSRCP applies to all construction projects existing within its jurisdiction, regardless of size or ownership of the construction site or activity.

Each Section of the HDOT Engineering Branch, including Planning, Design, Construction, Maintenance, and Environmental, reviews subsets of construction plans specific to their department for potential storm water impacts. The Harbors Division Engineering Branch reviews construction plans for potential storm water quality impacts, and drainage connection and discharge permit applications.

Construction site operators are required to submit a Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) under the Hawaii NPDES General Permit Authorizing Discharges of Stormwater Associated with Construction Activity, HAR Chapter 11-55 Appendix C (the Hawaii Construction General Permit) for projects greater than one acre prior to approval. Harbors Division ensures that plans reflect the actual site conditions and are updated accordingly. The HDOH Clean Water Branch implements NPDES requirements in Hawaii and administers review and granting of Individual and General Permit Coverage, however NOI requests for discharge of storm water from industrial sites and SWPPPs have been routed to Harbors Division for review and comment. In 2011 the plans listed in Table 5-1were reviewed by Harbors Division: Several reviews were conducted, but not documented. All future reviews will be documented.

Table 5-1 Summary of Construction Plans Reviewed

Location	Date	Project No.	Project Description
Piers 24-26	12/8/11	HC 10438	Repair piles and waterline at Pier 24-26.
Varies	Varies	Varies	Other projects reviewed, but not documented.

TRPs and tenant lease agreements require compliance with all environmental laws and limit possession, usage and storage of hazardous wastes without lessor knowledge and consent.

Harbors Division requires that prior to new connections or discharge to the regulated drainage system, an application for the connection and/or discharge must be made. Upon review and acceptance of the application, Harbors returns a permit for connection, a permit for discharge or comments explaining a denied connection or discharge. Permits approved during 2011 can be found in Appendix N and are summarized in Table 5-2.

Table 5-2 Summary of Construction Connection Applications Reviewed

Applicant	Location	Harbors ID No.	Date of Approval
Fukunaga and Associates	Ala Moana Force Main No. 3 and 4, TMK: 2-1-15:09	HH-02-U001	4/18/2011

Storm water BMPs are reviewed by HDOH Clean Water Branch (CWB) during NPDES NOI review, and may be reviewed by the City and County of Honolulu if plans are routed through them. Please see BMP 5-1. Harbors Division personnel including Marine Cargo Specialists, the Harbor agent, and Construction Inspectors may note implementation of BMPs and contractor waste management practices, and have authority to take action in the event of noncompliance.

BMP 5-1 Required Document Review

Goal: Prevent	t sediment and ero	osion runoff from	construction si	tes during the pla	nning phase.
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Review construction plans for potential impacts in respective	Percentage of construction plans reviewed	100% of plans reviewed	April 2011	All HDOT Engineering Branch Sections	Connection permit applications reviewed and approved.
areas					Please see Appendix N.
Review plans for stormwater considerations during pre- and	Percentage of construction plans reviewed	100% of plans reviewed	April 2011	Harbors Design, Maintenance and	Construction plans with potential stormwater
post-construction phases				Environmental Section	impact reviewed.
Review SWPPP, NOI, and discharge permit applications for construction projects	Percentage of documents reviewed	100% of documents reviewed	April 2011	Harbors Design, Maintenance and Environmental Section	Applications reviewed.
Review erosion and sediment BMPs and waste management practices	Percentage of sediment BMPs and waste management practices reviewed	100% of BMPs and waste management practices reviewed	NA	HDOH Clean Water Branch, City and County of Honolulu, or Harbors Division	Plans reviewed.

5.1.2 Construction Site Best Management Practices

Construction site BMPs serve the purpose of preventing sediment and other pollutants created from construction activities from reaching waters. In many cases BMPs prevent sediment and pollutants from being dislodged from their original locations.

Harbors Division requires that construction site operators implement appropriate erosion and sediment control BMPs as well as any other BMPs that will reduce the flow of pollutant off-site to the MEP. Selected BMPs must demonstrate an understanding of the soil texture and sediment size such that the BMP chosen provides the maximum benefit to runoff control. A specification sheet that includes stormwater BMP requirements has been developed and will be included with contractor solicitation documents. The Temporary Water Pollution, Dust, and Erosion Control spec is included as Appendix O.

5.1.3 Site Inspection and Enforcement

Construction sites are inspected for compliance with the stormwater-related requirements until construction is terminated, the site has been stabilized, and the site's NPDES construction permit has been closed. Inspections are at least once every two weeks during the months of October through April, then at least bi-monthly during the remaining months. Inspections ensure the following:

- ✓ Sediments generated at the project site are retained using adequate source control and structural BMPs;
- ✓ Construction-related materials and wastes are retained at the project site to avoid discharge to the storm sewer and waters of the United States;
- ✓ Unauthorized non-stormwater runoff is contained at the project site; and
- ✓ Erosion from slopes and channels are controlled by implementing an effective combination of erosion and sediment control BMPs, such as limiting grading during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering slopes susceptible to erosion.

Enforcement is executed according to the IEP located in Harbor Division's EMS Manual.

Reports include a list of all construction projects, inspection dates, and resolution of any violations of stormwater-related requirements can be found in Appendix P and is summarized in Table 5-3. Please see BMP 5-2.

Table 5-3 Summary of Construction Inspections

Project Number	Project Title	Dates Inspected	Corrective Actions
HC 10239	Perimeter Fencing at Honolulu and Kalaeloa Barbers Point	2/22/2011, 3/10/2011, 3/22/2011	None
HC 10352R	Repair Lighting at Clock Tower Room, Aloha Tower	3/30/2011	None
HC 10365	Port of Honolulu Passenger/Cargo Facility IEDS Threat Prevention	2/15/2011, 3/2/2011, 3/30/2011, 4/12/2011, 5/4/2011	None
HC 10408	Installation of Additional Cruise Ship Bollard at Pier 2, Honolulu	8/29/2011, 10/11/2011	None
HC 10423	Repair Bollards at Piers 31-33, Honolulu Harbor	4/21/2011, 5/2/2011, 12/9/2011, 12/28/2011	None
HC 10428	Repair Windows at Harbors Administration Building	5/18/2011, 7/19/2011, 9/21/2011	None
HC 10429	Fender Repairs at Pier 39, Honolulu Harbor	11/15/2011	None
HC 10431	Electrical and Water Lines Repairs at Piers 16-17, Honolulu Harbor	2/9/2011, 3/1/2011, 3/14/2011, 4/5/2011, 4/18/2011, 5/12/2011, 10/27/2011	None
HC 10440	Repair Piles at Pier 40, Honolulu Harbor	3/22/2011, 4/6/2011, 4/20/2011, 5/4/2011	None
HC 10444	FY11 1-yr Pavement Maintenance Contract for Matson Yard	10/25/2011	None
HC 10454	Expansion Joint Repairs at Piers 39-40, Honolulu Harbor	12/6/2011, 12/27/2011	None
HC 10466	Roof Repairs at Pier 10 Shed	9/23/2011, 10/10/2011	None

BMP 5-2 Site Inspection and Enforcement

Goal: Ensure imp	Goal: Ensure implementation of BMPs and controls by construction site operators through inspection and enforcement.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Perform inspections of permitted construction sites for implementation of construction site BMPs	Frequency of inspection	At least once every two weeks during the months of October thru April, then at least bi-monthly during the remaining months	Throughout the year	Harbors Division, Site Inspectors	Completed. See Table 5-1 for summary and Appendix P for reports.		
	Number of construction sites inspected	100% of construction sites	Throughout 2011	Harbors Division, Site Inspectors	12 sites		
Incorporate inspection of storm water components into inspection program	Construction site storm water deficiencies are reduced	Deficiencies are reduced from previous year	Throughout 2011	Harbors Division, Site Inspectors	Baseline established. Erosion and sediment control inspections already underway.		
Keep a list of all construction projects, inspection dates, and resolution of any violations for the annual reports	Completeness of inventory	100% of construction sites, inspections, resolutions, and violations recorded	Throughout 2011	Harbors Construction and Environmental Section	File created at Harbors and 100% of known construction sites inspected.		

5.1.4 Receipt of Public Input

Harbors Division remains open to public comment and illicit/NSWD reporting. The public is able to contact Harbors Division via hotline, email, website, or mail. Communications are logged on the SHOT Form and appropriate responses are made. No public input was received during the 2011 period. Please see BMP 5-3.

BMP 5-3 Receipt of Public Input

Goal: To remain receptive public to opinion and involvement							
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Accept and follow up on public reporting and record outcome	Track number of public reports	Increase from previous year	NA	Harbors Environmental Section	None received		

5.1.5 Training and Outreach

Harbors Division employees who are responsible for construction plan review and site inspections are trained annually in the requirements of the SWMP and Hawaii General Permits. A copy of the Stormwater Construction Inspection training is available as Appendix Q. Please see BMP 5-4. Employees were trained in plan review and inspection procedures.

Construction plan review training included the following 10 elements taken from EPA guidance:

- ✓ Minimize clearing and grading;
- ✓ Protect waterways;
- ✓ Phase construction to limit soil exposure;
- ✓ Immediately stabilize exposed soils;
- ✓ Protect steep slopes and cuts;
- ✓ Install perimeter controls to filter sediments;
- ✓ Employ advanced sediment settling controls;
- ✓ Certify and train contractors on stormwater site plan implementation;
- ✓ Control waste at the construction site; and
- ✓ Inspect and maintain BMPs.

Construction site inspection included training on specific forms from the Harbors EMS Manual:

- ✓ HDOH CWB NOI General Form
- ✓ HDOH CWB NOI Form C
- ✓ EMS Manual Appendix G Inspection and Enforcement Program
- ✓ EMS Manual Appendix H Construction Program
- ✓ HAR 11-55 Appendix C

Education and outreach will be provided for stakeholders. Educational materials currently include a specification section for construction storm water BMPs. Please see BMP 5-4. The intent of

these educational materials is to make certain that the site manager or onsite coordinator is aware of the proper installation and maintenance procedures for construction storm water BMPs.

BMP 5-4 Training and Outreach

	Goal: Foster widespread knowledge of construction BMPs						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
Develop internal training materials for plan review staff and inspectors	NA	NA	June 2011	Harbors Environmental Section	Updated in 2011. See Appendix O.		
Conduct training for employees who are responsible for construction site inspections	Educate construction inspectors about proper selection, installation, inspection, and maintenance of BMPs	100% of construction site inspectors received education	June 2011	Harbors Environmental Section	Training conducted in June 2011		
Provide educational materials for plan reviewers	Percent of plan reviewers receiving educational materials	100% of plan reviewers received educational materials	June 2011	Harbors Construction and Environmental Section	100%		
Provide educational package to construction sites	Percentage of construction sites covered	100%	NA	Harbors Engineering Branch	To be implemented in 2012.		
Post educational materials on Harbors website	Increase views to website	Increased views from previous year	NA	Harbors Web Master	Materials to be uploaded in 2012.		

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POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW 6.0 DEVELOPMENT AND REDEVELOPMENT



Permit Requirements

Vegetated Swale, Kahului, Hawaii

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce a program to reduce pollutants in storm runoff entering the permittee's small municipal separate stormwater sewer system from new development and redevelopment projects which disturb greater than or equal to one acre, including construction sites less than one acre that are part of a large common plan or development or site that would disturb one acre or more, that, at a minimum, includes the following:

- (A) Establishment of rules, ordinances, and other regulatory mechanism, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects,
- (B) Structural or non-structural best management practices to minimize water quality impacts and attempt to maintain pre-development runoff conditions, and
- (C) Procedures for long-term operation and maintenance of best management practices.

6.1 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

Harbors Division has developed a Post-Construction Stormwater Management Program as part of its SWMP to prevent polluted storm water discharges from areas of new development and significant redevelopment. This program includes project reviews based on the post-construction erosion control NPDES permit regulations and the Development Standards requirements. The purpose of the post-construction program is to provide a mechanism by which ongoing protection of storm water quality can be addressed and attained.

Post-construction storm water management is also addressed in part by the preceding minimum control measures: public education and outreach, public involvement and participation, and illicit discharge detection and elimination.

6.1.1 Construction Permit Review Process

As part of the NPDES program, HDOH CWB administers review of projects that are equal to or greater than one acre in size. Applicants for coverage under the Nationwide General Permit or Individual Stormwater Discharge Permits submit applications including descriptions of the project scope and schedule, contractor, past land use history, existing conditions and potential pollution sources, construction and post-construction site-specific BMPs.

Harbors Division's review process has the goal of maintaining or improving pre-development runoff conditions. As such, Harbors requires construction applicants to perform a pre- and post-development hydrological analysis to protect natural channels from erosion, to size storm drainage infrastructure, and to address flooding.

Harbors Division identifies controls that provide treatment and reduce storm water volume and velocity. Harbors Division also ensures that on-going maintenance of BMPs is provided in the plans and properly executed, as BMPs are not effective unless properly maintained.

No NPDES Permit and Low Impact Development Standards (LIDS) compliance applications were received in 2011. Please see BMP 6-1.

Goal: To ensure that long-term controls are in place to prevent degradation of stormwater						
Activity	Evaluation Indicators (or Measurable Goals) Milestones Date Action Performed by Status/ Comments					
Review NPDES Permit and LIDS compliance applications	Percentage of applications reviewed	100% of applications	NA	Harbors Division Environmental, Design and Maintenance Sections	No applications received.	

BMP 6-1 Review NPDES Permit Application

6.1.2 Low Impact Development Standards Plan

Harbors Division has developed a low impact development standard (LIDS, see SWMP) that requires measures to reduce pollution discharges to the MEP from all new development and significant redevelopment projects. The LIDS requirements apply to all new development and significant redevelopment projects.

Significant redevelopment includes, but is not limited to expansion of a building footprint, or replacement of a structure; replacement of impervious surface that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Where significant redevelopment will result in an increase of less than 50 percent of the impervious surfaces of a previously existing development, and the existing development was not subject to LIDS, the BMP design standards apply only to the addition, and need not be applied to the entire development.

Implementation of LIDS and amendments of TRPs and tenant lease agreements will follow the completion of the Final SWMP. Please see BMP 6-2.

Goal: Reduce pollution discharges to the MEP from all new development and significant redevelopment projects **Evaluation Indicators** (or Date Action Performed Activity Measurable Goals) **Milestones** Performed by **Status/ Comments** 100% Implement Percentage of TBD Harbors To be released with LIDS and necessary lease Environmental Final SWMP agreement and TRP Section, Design amend tenant lease amendments and agreements conducted Maintenance and TRPs as

BMP 6-2 Low Impact Development Standards Plan

6.1.3 Structural and Non-Structural BMPs

necessary

Post-construction storm water quality efforts are currently addressed by Harbors Division through the following BMPs or integration of the following BMPs:

- ✓ Preserve undeveloped areas where such areas are not required by operations to be paved,
- ✓ Consider surface treatments for improved areas which retain rainfall and allow percolation rather than impervious surfacing which generates runoff, such as paver tiles in lieu of asphalt or concrete pavement,
- ✓ Preserve naturally occurring flat to low slopes in all areas, which minimize runoff concentration, quantity, velocity and erosive capability,
- ✓ Where runoff flows are concentrated, provide durable drainage systems sized to convey peak flows,
- ✓ Review construction plans to provide and maintain grading which limits the area of the drainage basin discharging into the harbor,
- ✓ Continuously monitor operations to ensure that major tenants using pier aprons adequately clean the aprons upon completion of loading/offloading activities,
- ✓ Implement structural BMPs that reduce the quantity of storm runoff at Honolulu Harbor.
- ✓ Operational areas will be paved with reinforced concrete or asphalt concrete, to prevent erosion. These surfaces will also allow spills of materials to be cleaned up,
- ✓ Maintain minimal to low slopes throughout improved areas (access roadways, piers and aprons) where surfaced with asphalt or reinforced concrete, which reduces runoff peak flow quantities and velocity.

Harbors Division evaluates current BMPs to determine if they sufficiently meet the requirements of the NPDES permit and, if they are lacking, Harbors Division requires tenants and contractors to implement the appropriate BMPs.

Post-construction storm water BMPs are evaluated by Harbors during tenant inspections. No new post-construction BMPs were implemented during 2011. Please see BMP 6-3.

BMP 6-3 Structural and Non-Structural BMPs

	Goal: Implementation of LID BMPs								
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments				
Evaluate current BMPs	Percentage of BMPs evaluated	100%	Ongoing	Harbors Construction and Environmental Section, Design and Maintenance	BMPs were identified during tenant inspections				
Enforce development & implementation of new post-construction BMPs	Percentage of site potential pollutants are prevented	100%	NA	Harbors Construction and Environmental Section, Design and Maintenance	No post- construction BMPs developed in 2011				

6.1.4 Operation, Maintenance, and Inspections

Structural or non-structural BMPs are not considered effective, nor are MEP criteria met, unless a long-term operation and maintenance procedure is put into place and carried out. Upon completion of construction, assurance is required for the long-term operation and maintenance of structural and non-structural BMPs. Please see BMP 6-4.

BMP 6-4 Operations, Maintenance, and Inspections

Goal: To main	ntain effectiveness	of BMPs throug	gh operations and	d maintenance pla	ns
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Create database to track operation and maintenance practices	Create a database	Database has been created	NA	Harbors Environmental Section	To be created in 2012
Perform scheduled operation and maintenance practices	On-time completion of maintenance practices	100% of O&M has been confirmed conducted	NA	Oahu District	Identified BMPs will be documented and O&M will be confirmed in 2012
Inspect project for post- construction controls	Percentage of potential pollutants mitigated	Equal to maximum standard operating capacity	NA	Harbors Construction Environmental Section Inspectors and	To be inspected in 2012.

6.1.5 Stakeholder Education and Outreach, Employee Training

Tenant TRPs and tenant leases require maintenance of post-construction runoff control measures in their premises. An educational packet will be sent to all stakeholders, which include tenants and their contractors. The educational package will includes:

- ✓ A post-construction BMP template
- ✓ BMP Checklist
- ✓ Questions relating to post-construction storm water management on the TSI

While it is the responsibility of the tenant to ensure that their construction contractors are educated in Post-Construction considerations, Harbors will send educational material to contractors that are identified to be working on Harbors property. Please see BMP 6-5.

Harbors internal training will include guidance on the inspection of post-construction BMPs. Please see BMP 6-5. Inspection training also includes proper operations and maintenance of typical post construction BMPs, indicators of BMP failure, and inspection techniques.

BMP 6-5 Stakeholder Education and Outreach

Goal: Create awa	areness with stal	keholders and e	mployees to red	uce post-construction i	un-off.
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments
Develop post-construction educational package	NA	NA	NA	Harbors Environmental Section	Educational materials to be developed in 2012
Distribute educational packet in TSI Mailing	Percentage of tenants in receipt of mailing	100%	NA	Harbors Environmental Section	Educational materials were developed and distributed.
Post information on Harbors Division website	Track number of views	Greater than previous year	NA	Harbors Web Master	Information to be uploaded in 2012
Conduct training	Percentage of employees and tenants trained	Greater than previous year	NA	Harbors Environmental Section	Training conducted with general stormwater awareness

7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING



Permit Requirements

Hawaii Harbor (left) and Sand Island (right), January2006

HAR Chapter 11-55 Appendix K Part 6.(a)(4). Develop, implement and enforce an operation and maintenance program to prevent and reduce stormwater pollution from activities, including but not limited to, park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance that, at a minimum, includes the following:

- (A) Good housekeeping and other control measures, and
- (B) Employee and contractor training on good housekeeping practices, to ensure that good housekeeping measures and best management practices are properly implemented.

7.1 POLLUTION PREVENTION/GOOD HOUSEKEEPING PROGRAM

A Pollution Prevention/Good Housekeeping Program has been developed with the ultimate goal of preventing or reducing pollutant runoff. The program includes an internal record-keeping system to schedule and document the maintenance activities performed.

7.1.1 Maintenance and Housekeeping Practices

Maintenance is on-going at tenant and Harbors facilities. Please see BMP 7-1. The following maintenance activities are conducted:

- Emptying dumpsters and remove and dispose of discarded objects, machinery or equipment.
- ✓ Prompt repair/replacement of malfunctioning dumpsters
- ✓ General maintenance and repair of public facilities is conducted in-house, while a contractor is selected for most large projects.

- ✓ Grounds maintenance personnel use fertilizer or herbicides in accordance with the manufacturer's instructions and in a manner that eliminates potential for runoff into the gutters, or storm drain system.
- ✓ Pier and apron cleanliness is assessed for debris and staining, and responsible parties notified to conduct cleaning as needed. Operators with leaking vehicles are required to park vehicles and equipment indoors/under cover, provide drip pans and repair leaks.
- ✓ Vehicle and equipment washing on Harbors property is prohibited unless performed in an approved wash facility.
- ✓ Clean up stains, spills, oil spots using dry cleanup methods. A record of spill cleanups can be found in Appendix K.

7.1.1.1 Sweeping Common Areas and Select Tenant Facilities

Sweeping prevents microscopic pollutants from entering the ocean by removing them before they flow into the storm sewer. Regular sweeping is performed by Harbors Grounds Maintenance. Grounds Maintenance has four sweepers; three are dedicated to Honolulu Harbor. Sweeping includes all common areas and certain areas on tenant facilities where cleaning is requested. Sweeping is performed according to the following schedule presented in Table 7-1.

Location	Frequency	Duration (Hours)
Young Brothers	M, Th	2.5
Matson	Tu, F	2.75
Horizon Lines Terminal	W	3
Aloha Cargo Pier 1	Once per month	2.5
Kewalo Basin	T, F	1
Piers 10, 11	M, F	1
Sand Island Base Yard	T, W	1
Fishing Village Parking Lot and Road Ways, Pier 35	Once per week	1.5
Piers 30, 31, 32 and Shed Areas	Twice per week	1.5
Piers 27, 28, 29	Twice per week	1.5
Piers 18, 19, 23, 24	Twice per week	1.5
Channel Street, Pier 2 Outside and Inside of Shed		
Areas	M, F	3
Pier 1 Entrance	Twice per week	1
Piers 1, 2 Common Roadways	Twice per week	1

Table 7-1 Grounds Maintenance Sweeping Schedule

All waste from Honolulu and Kalaeloa Barber's Point Harbors are combined and disposed of at the appropriate disposal contractors. Sweeper waste is disposed of at PVT Land Company and Waimanalo Gulch. This year approximately 251.9 tons of sweeper waste was removed for disposal. Grounds Maintenance is also responsible for collection of trash, leaves and other debris, which prevents debris from blocking storm drains and causing localized flooding. In 2011 approximately 9.48 tons of green waste was disposed of at Hawaiian Earth Products, a green waste disposal company.

7.1.1.2 Pressure Washing

The sidewalks and walls at Pier 2 required pressure washing in 2011. A memo was created with the purpose of describing steps to be taken to perform this activity while protecting the storm drains form NSWDs. The three drain inlets were secured with booms before pressure washing began. Fuel was removed from the site before work began. Employees squeegeed water away from sidewalks and walks into the open parking area for the street sweeper to collect. This memo was sent to personnel responsible for pressure washing. A copy of the memo is included as Appendix R.

7.2 WASTE COLLECTION

Grounds Maintenance picks up and disposes of other potential pollutants left in drop off areas or discarded illegally by the public in order to prevent pollution to the environment. This includes automobile, boat, and motorcycle lead acid batteries, scrap steel, discarded used tires, and construction debris.

Table 7-2 is a compilation of the different types of waste collected by Harbors Division and their disposal destinations. Quantities listed are the combined amounts from both Honolulu and Kalaeloa Barber's Point Harbors. All disposal receipts are kept as supporting documentation of compliance with storm water regulations. All values are for both Honolulu and Kalaeloa Barber's Point Harbors.

Table 7-2 Waste Destination and Amounts

Waste Type	Destination Facility	Amount
Green Waste	Hawaiian Earth Products	9.48 tons
Refuse	Covanta Energy Honolulu Resource Recovery	313.53 tons
Sweeper Waste	PVT Land Company, Ltd.	201.76 tons
Refuse	Waimanalo Gulch	50.14 tons
Recycled Metal	Schnitzer Steel Hawaii Corp.	18.9 tons
Used Batteries	Leeward Auto Recycling	74 batteries

BMP 7-1 Maintenance and Housekeeping Practices

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Designate appropriate sweeping frequencies and perform sweeping	Percentage of facilities for which a written schedule is made and sweeping performed	100% of facilities	Common area schedule already in- place	Harbors Maintenance Management and Personnel; tenants	Common areas and facilities with contracts with Harbors are swept according to a schedule.	
Designate appropriate drainage system maintenance and perform maintenance according to priority	Percentage of drainage systems that have been designated as urgent that have been cleaned	100% of urgent drainage systems	On-going	Harbors Maintenance Management and Personnel; tenants	Drainage priorities to be determined from 2011 inspection results.	
Provide general instructions for identification, storage, use, collection and treatment of drainage and housekeeping educational materials to tenants	Percentage of tenants to which educational materials have been provided	100% of tenants	May 2011	Harbors Environmental Section	Instructions Provided in Harbors Storm Water training and mailing attachments	
Provide training to employees	Percentage of employees to whom training has been provided	100% of employees	Ongoing	Harbors Environmental Section	Maintenance staff has been trained on general stormwater pollution prevention. Please see Appendix M.	

7.2.1 Review of Wash Areas, Dry Wells, and Infiltration Sinks

Prior to 2011, Harbors Division prohibited all washing activities, including vehicle/equipment washing and hand washing with the use of sinks that are not already approved by HDOH because of the potential to create NSWDs. In 2011, Harbors Division began to allow tenants to formally submit applications to perform permitted washing activities.

The EPA stormwater BMP for Municipal Vehicle and Equipment Washing states the following:

"If a vehicle must be washed outside of a facility plumbed to the sanitary sewer, take precautions to avoid wash water discharges to the storm drain system. For small jobs, berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water for discharge to the sanitary sewer. For larger jobs, use a combination of berms and a vacuum truck, such as those used to clean storm and sanitary sewer systems, to capture and safely dispose of wash water. If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm."

- EPA Website Reference: http://cfpub.epa.gov/npdes/stormwater/menuofbmps

Harbors Division requires that applications for washing include the following information:

- ✓ What the tenant intends to wash;
- ✓ Equipment used (i.e. pressure sprayer, hose, etc.) and flow rate;
- ✓ Wash water containment method (permanent wash rack, temporary berm, etc.);
- ✓ Wash water capture method (vacuum truck, evaporation, etc.);
- ✓ Wash water collection container capacity; and
- ✓ Wash water disposal method.

Tenants are prohibited from washing equipment and vehicles until Harbors Division verifies that these washing activities do not create a potential hazard to the receiving waters. Harbors Division issues a formal letter of approval once these conditions are met. Thus far, one tenant has been tentatively approved to wash vehicles. Table 7-3 summarizes the list of tenants currently approved to conduct washing activities. The application and review process is tracked on an annual basis in BMP 7-2. Approval letters for washing are included as Appendix S.

Tenant	Location	Date of Approval	Date of Expiration	Description of Activity
Windward Moving and Storage Company, Inc.	KMR 929E	12/7/11	12/31/12	Mobile washing equipment provided by J/R Environmental Co. is approved for use at this facility.

Table 7-3 Municipal Vehicle and Equipment Washing

Harbors Division requires that applications for sinks or drains that are not connected to the sanitary sewer include the following information:

- ✓ The intended use of the sink:
- ✓ A list of substances that may be washed into the sink (i.e. bio-degradable soaps, dirt, etc.)
- ✓ Construction drawings for the sink;
- ✓ Proposed treatment of the water (filtration fabric, sand, carbon filters, oil-absorbent material, etc.)
- ✓ Final destination of wash water; and

✓ Routine maintenance schedule for the sink (replacement of filtration material).

Tenants are prohibited from using unapproved sinks until Harbors Division verifies that the sinks do not create a potential hazard to receiving waters. Harbors Division may issue a formal letter of approval once these conditions are met. The application and review process is tracked on an annual basis in BMP 7-2. The application and review process is tracked on an annual basis in BMP 7-4. Application letters for sinks are included as Appendix T. No approvals for dry wells or infiltration sinks have been granted by Harbors to date.

Date of Date of Tenant Location Description of Discharge Approval Expiration Pre-treated water is diverted to a gravel sump. Sink water pre-treated Don's Makiki Not yet with absorbent pads with regular Pier 42 N/A Service approved replacement. Biodegradable soap product implemented. 91-607 Malakole Road, Dry well included in HDOH NPDES Kalaeloa Marisco, Ltd. 5/6/2011 N/APermit: HI 0021786 Barbers Point

Table 7-4 Dry Well or Infiltration Sinks

BMP 7-2	Review of	Washing.	Dry Well	s and	Infiltr	ation	Sinks

Harbor

Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments	
Review applications for vehicle and equipment wash areas for storm water concerns.	Number of applications submitted and reviewed.	100% of applications.	Ongoing	Harbors Environmental Section	1 application submitted; one application reviewed.	
Review applications for dry wells and infiltration sinks.	Number of applications submitted and reviewed.	100% of applications	Ongoing	Harbors Environmental Section	1 application submitted; review is ongoing.	

7.2.2 Tenant Education and Employee Training

Tenants were educated about pollution prevention and good housekeeping practices at the annual Harbors training. A copy of the presentation given and a record of attendance are located in Appendix E. A video entitled, "Storm Watch," by EXCAL Visual Communications, was shown during the presentation and topics including the following were discussed:

- ✓ Proper methods for cleaning equipment;
- ✓ Proper labeling and handling of cleaners, solvents, and chemicals;
- ✓ Organized chemical storage;
- ✓ Responsible disposal of chemicals;
- ✓ Storage procedures for stored metals;
- ✓ Proper site drainage;
- ✓ Proper equipment/material storage;
- ✓ Timely equipment operation and maintenance; and
- ✓ Proper site maintenance.

Slides depict examples of proper and improper BMPs were also presented to illustrate acceptable procedures.

BMP 7-3 Tenant Education, Employee and Contractor Education

Goal: To prevent p	Goal: To prevent pollutants from reaching the storm sewer system by using preventative maintenance practices and BMPs.						
Activity	Evaluation Indicators (or Measurable Goals)	Milestones	Date Performed	Action Performed by	Status/ Comments		
					TSI attachments		
					provided information and		
Davalon							
Develop educational	Percentage				tips on housekeeping		
materials and	of tenants in				practices. Will		
distribute to	receipt of				develop contractor		
tenants and	educational	100% of	September		educational		
contractors	materials	tenants	2011	Weston	materials in 2012.		
Hold training							
sessions for					General awareness		
employees tasked	100% of			Harbors	training conducted		
with maintenance	employees	100% of		Environmental	in 2011. Please see		
activities	trained	employees	Ongoing	Section	Appendix M.		

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8.0 ADDITIONAL ANNUAL COMPLIANCE REPORT REQUIREMENTS



8.1 MODIFICATIONS TO THE SWMP

Per USEPA Order for Compliance, paragraph 1, the SWMP was revised to more comprehensively detail specific BMPs that will be implemented for each of the program minimum control measures, with underlying rationale for their selection and inclusion. Requirements to specify quantitative goals, provide metrics for improvement, and milestones for each of the BMPs; and the name or name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component are now tracked through the ACR.

Harbors Division made appropriate modifications to reflect the above requirements with its 2009 Draft SWMP submission and is currently awaiting comments from the EPA and HDOH to incorporate into the revised SWMP.

8.2 MODIFICATIONS TO THE SMALL MS4

No major modifications have been made to the Small MS4 during the 2011 calendar year. A copy of the outfall map is available in Appendix I.

8.3 SUMMARY OF PLANNED ACTIVITIES

8.3.1 Public Education and Outreach

- ✓ Replace TSI form with contact information form to eliminate redundancy with inspection program
- ✓ Add additional educational materials
- ✓ Record hotline inquiries and track response time
- ✓ Post signs that advise against dumping
- ✓ Complete Harbors website
- ✓ Post tenant training presentation on Harbors website
- ✓ Set up and solicit a volunteer cleanup or storm drain stenciling activity
- ✓ Sponsor a yearly advertisement in the newspaper
- ✓ Monitor ship cargo loading and unloading

- ✓ Develop and maintain an inventory of ships and agents responsible for tracking vessel operators
- ✓ Provide educational materials to vessel operators
- ✓ Keep tenant inventory up-to-date
- ✓ Determine appropriate inspection frequencies per tenant according to the Harbors EMS
- ✓ Add findings, follow-up to the database

8.3.2 Public Involvement

- ✓ Post SWMP to the Harbors website for public review and comment when completed
- ✓ Track comments and include them in the ACR for 2011

8.3.3 Illicit Discharge Detection and Elimination

- ✓ Create a comprehensive list of NSWDs and control measures for all tenants
- ✓ Continue procedures outlined in the IEP
- ✓ Conduct dry and wet weather ORI
- ✓ Perform follow-up on dry weather NSWD observations

8.3.4 Construction Site Runoff Control

- ✓ Dependent on construction plan submittal
- ✓ Perform construction site plan and permit reviews
- ✓ Include Water Pollution Prevention specifications in contractor solicitation documents
- ✓ Report and implement enforcement procedures against construction sites that are found to be out of compliance
- ✓ Perform construction site inspections to identify possible sources of pollution and to ensure BMP's are providing an appropriate level of pollution prevention. Inspections will specifically target the following:
- ✓ Require stockpiling or immediate access to materials for erosion prevention and sediment control.
- ✓ Require erosion prevention and sediment controls at all construction projects;
- ✓ Require construction site operators to implement appropriate erosion prevention and sediment control BMPs; and
- ✓ Require construction site operators to implement BMPs appropriate for the control of waste and other potential pollutant sources.

8.3.5 Post-Construction Storm Water Management

✓ Inventory existing BMPs if found during tenant inspections

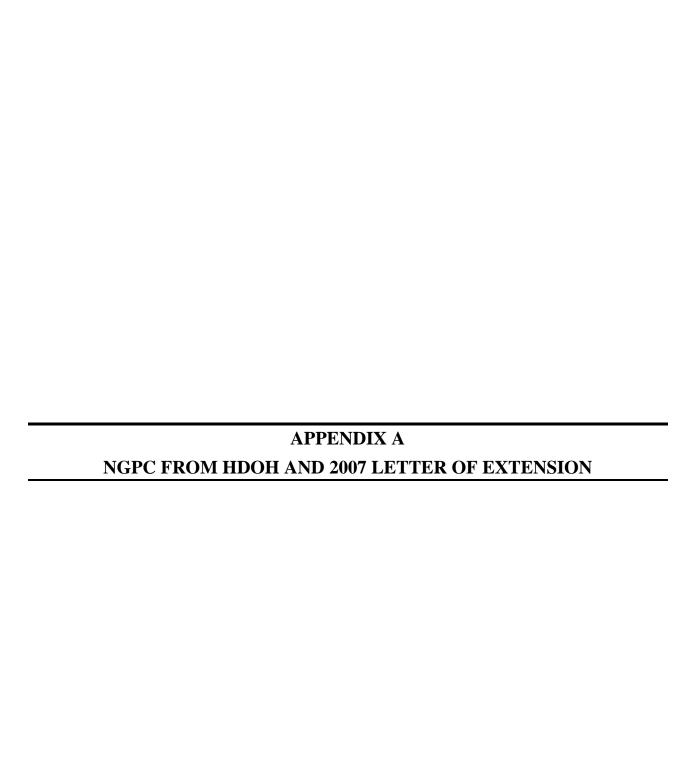
- ✓ Perform follow-up construction site permit reviews
- ✓ Enforce the incorporation of Low Impact Development Standards into all new development
- ✓ Ensure structural and non-structural BMP's are in place post-construction to minimize water quality impacts and attempt to maintain pre-development runoff conditions
- ✓ Ensure the longevity of post-construction BMP's via the creation of a long-term operation and maintenance programs
- ✓ Generate and distribute educational materials in annual mailings to tenants and maintain educational materials on the Harbors Division Stormwater Management website
- ✓ Conduct annual tenant training workshop

8.3.6 Pollution Prevention/Good Housekeeping

- ✓ Continue the ongoing maintenance of tenant and Harbor's facilities
- ✓ Require all tenants that wish to perform wash activities to submit applications for washing vehicles and equipment with proper controls and procedures to prevent pollution of receiving waters. Track review and approval process.
- ✓ Harbors will expand its maintenance program to include preventative maintenance of the storm drainage system, internal record keeping and scheduling, and appropriate training of employees
- ✓ Perform inspections at the frequency determined by risk rankings and conduct annual training to ensure tenant's compliance with employee training, pollution prevention, and good housekeeping requirements

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CHIYOME L. FUKINO, M.D. DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378

In reply, please refer to EMD / CWB

P.O. BOX 3378 HONOLULU, HAWAII 96801-3378

03KB482.FNL

May 19, 2003

The Honorable Rodney K. Haraga Director Department of Transportation State of Hawaii 869 Punchbowl Street Honolulu, Hawaii 96813

Attention: Mr. Fred Nunes

Harbors Division

Engineering Program Manager

Dear Mr. Haraga:

Subject: NOTICE OF GENERAL PERMIT COVERAGE (NGPC)

National Pollutant Discharge Elimination System (NPDES)

Honolulu Harbor Small Municipal Separate Storm Sewer System

Honolulu, Oahu, Hawaii File No. HI 03KB482

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. § 1251 et seq.; the "Act"); Chapter 342D, Hawaii Revised Statutes; and Chapters 11-54 and 11-55, Hawaii Administrative Rules (HAR), Department of Health (DOH), State of Hawaii,

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION

(hereinafter "PERMITTEE")

authorized to discharge storm water runoff and certain non-storm water discharges as identified in Section 2.b. of this NGPC from the Hawaii Department of Transportation, Harbors Division (DOT-Harbors) Small Municipal Separate Storm Sewer System (Small MS4) outfalls identified in the Notice of Intent (NOI), dated March 7, 2003, and additional Small MS4 outfalls that may be identified from time to time by the DOT-Harbors, to the receiving waters named Honolulu Harbor, a Class A, Marine Water Embayment.

This NGPC is subject to the Permittee's compliance with:

- HAR, Chapter 11-55, Appendix K, NPDES General Permit Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems.
- HAR, Chapter 11-55, Appendix A, DOH, Standard General Permit Conditions.
- HAR, Sections 11-55-34.04(a), 11-55-34.07, 11-55-34.11, 11-55-34.12, and any other applicable Sections of HAR, Chapter 11-55.

The Permittee shall, but not be limited to, comply with the following General Requirements, Discharge Monitoring Requirements, and Reporting Requirements.

1. GENERAL REQUIREMENTS

The Permittee shall:

- a. Comply with all materials submitted in and with the NOI, dated March 7, 2003.
- b. Retain a copy of the NOI; the submitted Storm Water Management Plan (SWMP), and all subsequent revisions; and this NGPC at the facility.
- c. Ensure that anyone working under this NGPC complies with the terms and conditions of this NGPC.
- d. Revise the SWMP if any discharge limitation or water quality standards established in HAR, Section 11-54-04 for marine waters are exceeded. The revisions shall include Best Management Practices (BMPs) and/or other measures to reduce the amount of pollutants found to be in exceedance from entering State waters.
- e. Obtain all necessary permits, certifications, approvals, etc. from all pertinent agencies for the subject project.
- f. Include the file number, HI 03KB482, and the following certification with all information required under this NGPC:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person The Honorable Rodney K. Haraga May 19, 2003 Page 3

or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

g. Submit all information required under this NGPC to the following address:

Director of Health Clean Water Branch Environmental Management Division State Department of Health P.O. Box 3378 Honolulu, HI 96801-3378

2. DISCHARGE MONITORING REQUIREMENTS

- a. The Permittee shall effectively prohibit non-storm water discharges through its system into State waters. NPDES permitted discharges and discharges identified in Section 2.b. of this NGPC are exempt from this prohibition.
- b. The following non-storm water discharges may be discharged into DOT-Harbors' Small MS4 without an NPDES permit, provided that the DOT-Harbors determines that such discharges will not contain pollutants in amounts that will cause or contribute to a violation of an applicable water quality standard and the SWMP shall "identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge."
 - i. Water line flushing;
 - ii. Landscape irrigation;
 - iii. Diverted stream flows;
 - iv. Rising ground waters;
 - v. Uncontaminated ground water infiltration (as defined in Title 40, Code of Federal Regulations (40 CFR) §35.2005(20));
 - vi. Uncontaminated pumped ground water;

- vii. Discharges from potable water sources and foundation drains;
- viii. Air conditioning condensate;
- ix. Irrigation water;
- x. Springs;
- xi. Water from crawl space pumps and footing drains;
- xii. Lawn watering runoff;
- xiii. Water from individual residential car washing;
- xiv. Flows from riparian habitats and wetlands;
- xv. Dechlorinated swimming pool discharges;
- xvi. Residual street wash water; and
- xvii. Discharges or flows from fire fighting activities.
- c. The discharge of pollutants from the DOT-Harbors' Small MS4 shall be reduced to the maximum extent practicable.

3. REPORTING REQUIREMENTS

The permittee shall:

- a. Develop, implement, and enforce the SWMP designed to reduce the discharge of pollutants from the DOT-Harbors' Small MS4 to the maximum extent practicable in order to protect water quality and satisfy the appropriate water quality requirements of the Act. In accordance with Section 6(a) of Appendix K, Chapter 11-55, HAR, the SWMP shall include the minimum control measures identified below:
 - i. Public Education and Outreach
 - ii. Public Involvement/Participation
 - iii. Illicit Discharge Detection and Elimination

- iv. Construction Site Runoff Control
- v. Post-Construction Storm Water Management in New Development and Redevelopment
- vi. Pollution Prevention/Good Housekeeping
- b. Submit the SWMP within 120 days of the Permittee's claimed automatic coverage which became effective on April 7, 2003.
- c. Develop measurable goals to gauge permit compliance and program effectiveness for each minimum control measure identified above. The permittee shall select measurable goals using an integrated approach that fully addresses the requirements and intent of the minimum control measure.
- d. Report in writing any proposed modification described in accordance with Section 6(c)(1) of Appendix K, Chapter 11-55, HAR, to the DOH for approval at least thirty days prior to the initiation date of the modification. The permittee shall report and justify all other modifications made to the SWMP in the annual report for the year in which the modification was made.
- e. Submit an annual report by January 28th of the following year in accordance with Section 9(a) of Appendix K, Chapter 11-55, HAR. The annual report shall cover each calendar year during the term of this NGPC and include the following:
 - i. Status of compliance with conditions of this NGPC;
 - ii. Assessment of the SWMP, including progress towards implementing each minimum control measure:
 - iii. Modifications made to the SWMP and implementation schedule during that calendar year, including justifications;
 - iv. Summary of the storm water activities planned to be undertaken during the next calendar year; and
 - v. Major modifications made to DOT-Harbors' Small MS4, including, but not limited to, addition and removal of outfalls, drainage lines, and treatment facilities.

- f. Properly address all modifications, concerns, requests and/or comments to the DOH's satisfaction.
 - i. SWMP Modifications The storm water pollution control activities described in the SWMP may need to be modified, revised, or amended from time to time over the life of the NGPC to respond to changed conditions and to incorporate more effective approaches to pollutant control. Minor changes may be proposed by the Permittee or requested by the DOH. Proposed changes that imply a major reduction in the overall scope and/or level of effort of the SWMP must be made for cause and in compliance with 40 CFR Section 122.62 and Part 124.
 - ii. System Modifications include any planned physical alterations or additions to the permitted Small MS4, any existing outfalls newly identified over the term of this NGPC.

This NGPC will take effect on the date of this notice. This NGPC will expire at midnight, November 6, 2007, or when amendments to HAR, Chapter 11-55, Appendix K, are adopted, whichever occurs first.

If you have any questions, please contact Ms. Joanna L. Seto of the Engineering Section, Clean Water Branch, at 586-4309.

Sincerely,

CHIYOME L. FUKINO, M.D.

Director of Health

Enclosures: 1. HAR, Sections 11-55-01 and 11-55-34 to 11-55-34.12

- 2. HAR, Chapter 11-55, Appendices A and K
- 3. Title 40, CFR Citations as referenced in HAR, Chapter 11-55, Water Pollution Control, Appendix A
- c: Mr. Fred Nunes, Engineering Program Manager, DOT-Harbors (w/o encls.) [via fax 587-1864 only]
 - Mr. Dean Yanagisawa, Highways Division, Oahu District, Department of Transportation (w/o encls.) [via fax 831-6725 only]
 - Mr. Gerald Takayesu, Storm Water Quality Branch, City and County of Honolulu, Department of Environmental Services (w/o encls.) [via fax 692-5520 only]
 - Mr. Charles G. Schuster, P.E., Edward K. Noda and Associates, Inc. (w/ Receipt No. 03553 for \$500 Filing Fee only)

LINDA LINGLE GOVERNOR OF HAWAII



CHIYOME L. FUKINO, M.D. DIRECTOR OF HEALTH

> In reply, please refer to DOH/CWB

03KB482.EXT

October 19, 2007

The Honorable Barry Fukunaga Director Department of Transportation 869 Punchbowl Street Honolulu, Hawaii 96813-5097

Attention: M

Mr. Frederick S. Nunes, P.E.

Engineering Program Manager

Harbors Division

Dear Mr. Fukunaga:

Subject: Administrative Extension of

Notice of General Permit Coverage (NGPC) Honolulu Harbor, Honolulu, Oahu, Hawaii

File No. HI 03KB482

The Department of Health (Department), Clean Water Branch (CWB) acknowledges receipt of your Notice of Intent (NOI) and \$500 filing fee for coverage under the National Pollutant Discharge Elimination System general permit provisions, in accordance with the Hawaii Administrative Rules (HAR), Section 11-55-34.08.

The Department is unable to complete the processing of your project's NOI prior to the current NGPC expiration date. Therefore, in accordance with HAR, Section 11-55-34.09(d), the Department hereby administratively extends the subject NGPC until a notice of renewed coverage under the applicable general permit is issued or until notified by the Department, whichever occurs first. Please note that the Department may request you submit additional information in order to complete the processing of your NOI for the renewed coverage.

The Permittee shall not be held in violation of Hawaii Revised Statues, Chapter 342D-6(h) and HAR, Chapter 11-55 during the pendency of its NOI, so long as it acts consistently with the NGPC presently granted. Any non-compliance with the conditions of the administratively extended NGPC may be subject to penalties of up to \$25,000 per violation per day.

It is the Permittee's responsibility to ensure that anyone working under this administrative extension of your NGPC understands and complies with the terms and conditions therein.

The Honorable Barry Fukunaga October 19, 2007 Page 2

If you have any questions, please contact Ms. Joanna L. Seto, Supervisor of the Engineering Section, CWB, at 586-4309.

Sincerely,

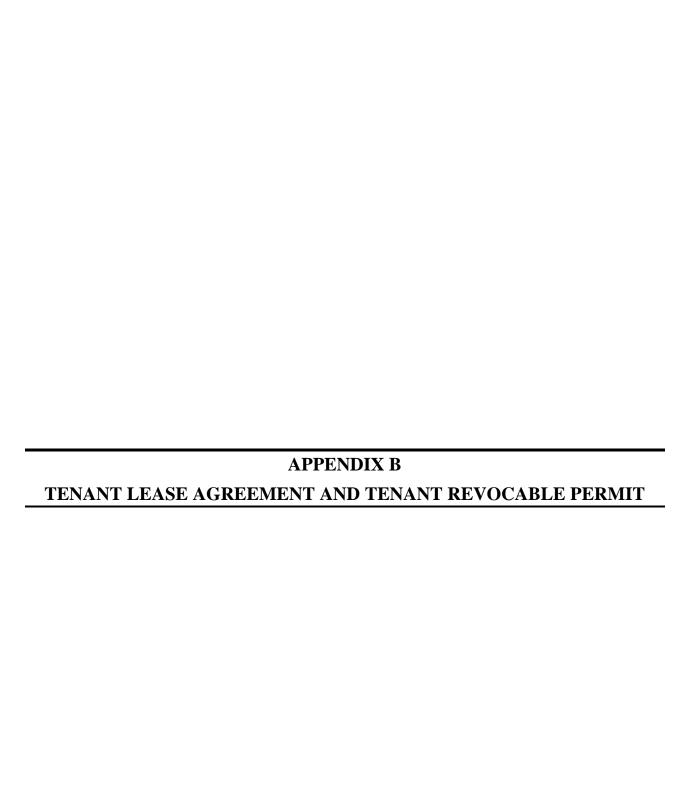
con Chiyome Leinaala Fukino, M.D.

Director of Health

c: Mr. Randal Leong, DOT-HAR [via fax 587-1864 only]
Mr. Charles Schuster, EKNA Services, Inc. (w/Receipt No. 31731 for \$500 Filing Fee)



EKNA SERVICES, INC



Lease Agreement Addendum 1

Environmental Compliance - Lessee's Duties

ADDENDUM 1

ENVIRONMENTAL COMPLIANCE – LESSEE'S DUTIES

A. <u>Definitions.</u>

For purposes of this Lease, Lessee 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. Lessee's Activities and Duties.

1. Compliance with Environmental Laws. Lessee agrees, at its sole expense and cost, to comply with all environmental laws that apply to the leased premises during the term of this lease, and Lessee's occupancy of, and activities on, the leased premises. This duty shall survive the expiration or termination of this lease which means that the Lessee'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 Lessee on the leased premises after the expiration or termination of this lease. Failure of the Lessee to comply with any environmental laws shall constitute a breach of this lease for which the Lessor shall be entitled, in its discretion, to terminate this lease and take any other action at law or in equity it deems appropriate. Lessee shall conform its operations with 49 CFR, Part 195 (Pipeline Safety), and shall install Time Domain Reflectivity (TDR) cable leak detection and monitoring equipment, which meet or exceed industry standards, adjacent to the fuel pipelines and related facilities, to provide an indication of any leak occurrence from any fuel pipeline or containment

device. In addition, the Lessee shall install a secondary containment wall/vaulting to prevent releases into the environment. The Lessee shall also develop, implement, and follow a written integrity management program that addresses the risks of each pipeline, and provides for periodic assessment of the integrity of each pipeline through internal inspection, pressure testing, or other equally effective assessment means, on a regular basis.

- **2. Hazardous Substances.** Lessee 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 leased premises (with the exception of the intended routine management of the petroleum products within the proposed pipeline) without first obtaining the written consent of the Lessor 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 lease.
- 3. Notice to Lessor. Lessee shall keep Lessor fully informed at all times regarding all environmental law related matters affecting the Lessee or the leased premises. This duty shall include, without limited the foregoing duty, providing the Lessor with a current and complete list and accounting of all hazardous substances of every kind which are present on or about the leased premises and with evidence that the Lessee 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 Lessee by any federal or state authority, or individual, which relates in any way to any environmental law, or any hazardous substance, and the Lessee or the leased premises. As part of this written notice to the Lessor, the Lessee shall also immediately provide the Lessor 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 Lessee. At least thirty days prior to termination of this lease, or termination of the possession of the leased premises by Lessee, Lessee shall provide the Lessor with written evidence satisfactory to the Lessor that Lessee has fully complied with all environmental laws, including any orders issued by any governmental authority to the Lessee that relate to the leased premises.
- 4. Notice to Authorities. Lessee shall provide written notice to the Environmental Protection Agency and the State of Hawaii Department of Health at least sixty days prior to the termination of this lease, or sixty days prior to Lessee's termination of possession of the leased premises, whichever occurs first, that Lessee intends to vacate the leased premises and terminate its operations on those leased premises. Lessee shall allow the agents or representatives of said authorities access to the leased premises at any and all reasonable times for the purpose of inspecting the leased premises, and taking samples of any material for inspection or testing for compliance with any environmental laws. Lessee shall provide copies of said written notices to Lessor 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 Lessee's business, Lessee shall cause any hazardous substances to be removed from the leased premises for disposal, and to be transported from the leased premises solely by duly licensed hazardous substances transporters, to duly licensed facilities for final disposal as

required by all applicable environmental laws. Lessee shall provide Lessor 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 Lessee, at its sole cost and expense, shall cause to be conducted such investigations and assessments of the leased premises to determine the presence of any hazardous substance on, in, or under the leased premises as may be directed from time to time by the Lessor, 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 Lessor or the federal or state authority directing said investigations and assessments to be conducted. Lessee shall retain a competent and qualified person or entity that is satisfactory to the Lessor or governmental authority, as the case may be, to conduct said investigations and assessments. Lessee shall direct said person or entity to provide the Lessor 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 to the Lessor and the governmental authority 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 leased premises, Lessee shall, at its sole expense and cost, remediate the leased premises of any hazardous substances, and dispose/remove said hazardous substance in accordance with paragraph 4. This duty to remediate includes strictly complying with all environmental laws and directives to the Lessee to remediate said hazardous substance from the Lessor. This duty to remediate shall include replacement of any materials, such as soils, so removed with material that is satisfactory to the Lessor and governmental authority, as the case may be. In the event Lessee does not remediate the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the remediation is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of remediation.
- **8.** Restoration and Surrender of Premises. The Lessee hereby agrees to restore the leased premises, at its sole cost and expense, including the soil, water and structures on, in, or under the leased premises to the same condition as the premises existed at the commencement of this lease, fair wear and tear to the structures excepted. In the event Lessee does not restore the leased premises to the same condition as it existed at the commencement of the lease, as determined by the Lessor, Lessee understands and agrees that Lessor may exercise its rights under the paragraph entitled Lessor's Right to Act, and until such time as the restoration is complete to the satisfaction of the Lessor, Lessee shall be liable for lease rent in the same manner and amount as if the lease had continued in effect during the period of restoration.
- **9.** Lessor's Right to Act. In the event Lessee fails for any reason to comply with any of its duties under this lease or under any environmental laws within the time set for doing so, or within a reasonable time as determined by the Lessor, Lessor shall have the right, but not the obligation, in its sole discretion, to perform those duties, or cause them to be performed. Lessee

hereby grants access to the leased premises at all reasonable hours to the Lessor, its agents, and anyone designated by the Lessor in order to perform said acts and duties. Any cost, expense, or liability of any type that may be incurred by the Lessor in performing said acts or duties shall be the sole responsibility of the Lessee, and Lessee hereby agrees to pay for those costs and expenses, and indemnify the Lessor for any liability incurred. This obligation shall extend to any costs and expenses incident to enforcement of Lessor'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. Lessee hereby agrees to release the Lessor, 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 Lessee by reason of any hazardous substance that may be present by whatever means on, in or under the leased premises. The Lessee hereby agrees to indemnify, defend with counsel suitable to the Lessor, and hold harmless the Lessor 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 leased premises, the Lessor's ownership of the premises, or this lease, including the presence of any hazardous substance on the leased premises.
- 11. Surety/Performance Bond for Cleanup/Restoration. At its sole cost and expense, Lessee shall provide the Lessor with a Bond, or other security satisfactory to Lessor, in the amount of \$100,000.00 to assure removal of any hazardous substances, and the remediation and restoration of the leased premises during the term of, and at the conclusion of the lease so as to comply with the terms of this lease to the satisfaction of the Lessor, and in order to comply with environmental laws. Lessee shall provide written evidence that said Bond or security has been secured by the Lessee, 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 lease, Lessee 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. Said policy of insurance shall provide coverage for personal injury or damage to property caused by hazardous substances or any occurrence that may constitute a violation of any environmental law by the Lessee. Said policy of insurance shall name the Lessor as an additional insured. Lessee shall provide proof of said insurance satisfactory to the Lessor which shall include, at a minimum, the coverage provided, and the term during which said policy shall be effective.

Excerpt from Standard Revocable Permit

Environmental Compliance - Permittee's Duties

26. 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.

- 30 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.
- **40 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.

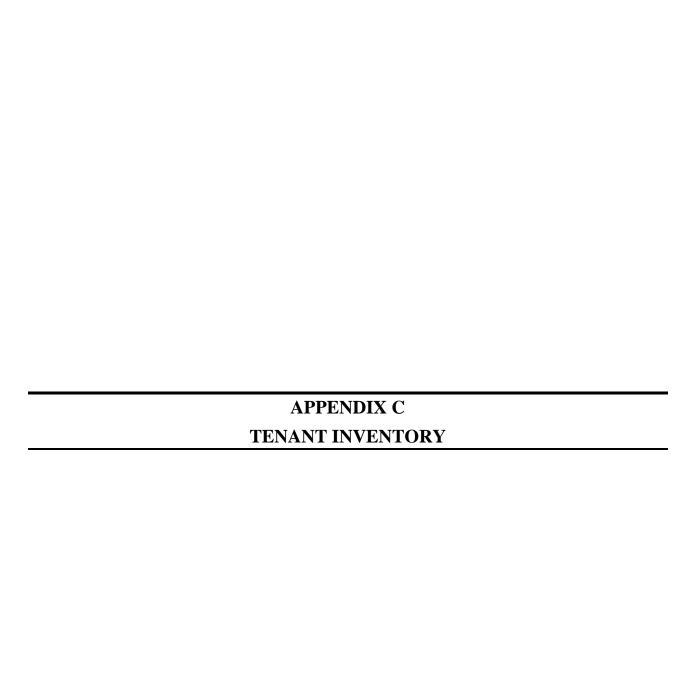
- **Notice to the State**. Permittee shall keep the State fully informed at all times regarding 3. all Environmental law related matters affecting the Permittee or the premises. This duty shall include, without limit to the foregoing duty, providing the State with a current and complete list and accounting 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.
- 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.
- **80** 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.

- **90 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, Permittee 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.
- **:0** 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.
- **; 0 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 of, 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.
- **340** 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 \$500,000.00. 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.



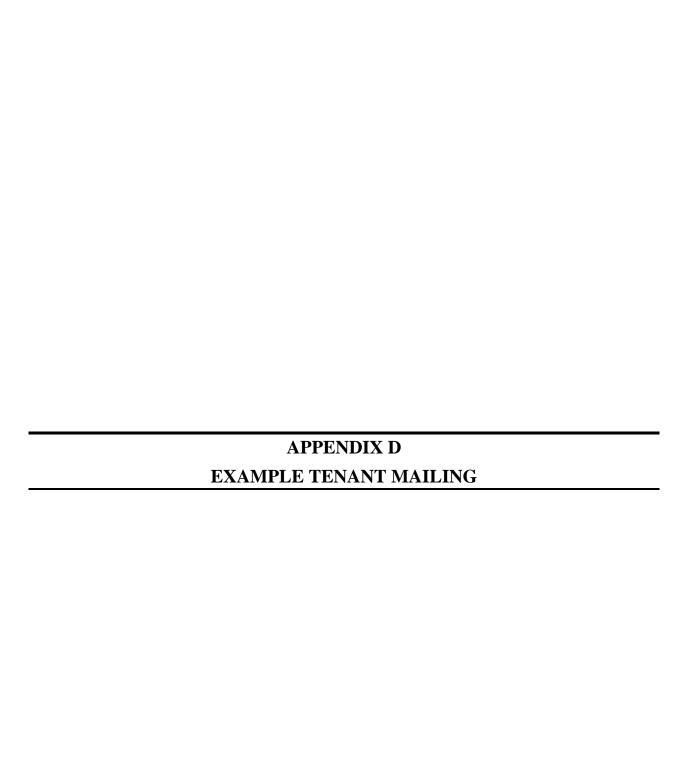
Honolulu Harbor Tenant Inventory						
Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number Leas	se Revocable Permit	NPDES Permits
1726, Inc.	4348 Waialae Avenue, Suite 334,	Honolulu, HI 96816-5307	Mark Glen	8085993888		
Aala Produce, Inc.	869 North Nimitz Highway,	Honolulu, HI 96817-4517	Rodney Tamamoto	808-576-0566 H-98	3-2	
Aircraft Service International Group/Hawaii Fueling Facility Group	3201 Aolele Street	Honolulu, HI 96819	Glenn Jinbo	(808) 833-3291 x29	H-31-953	
Akana Trucking, Inc.	209 Hao,	Honolulu, HI 96821	Kevin M Akana	8459825	DOT-94-64	
Aloha Agricultural Consultants, Inc.	P.O. Box 17220	Honolulu, HI 96817	Sidney Goo	8088455991	H-97-1985	
Aloha Cargo Agency, Inc.	677 Ala Moana Blvd., Suite 917	Honolulu, HI 96813	Thomas Crescenzi	479-8260	H-02-2321 H-93-1822	
Aloha Container Sales & Rental, Inc.	P.O. Box 30936	Honolulu, HI 96820	Richard D. Preston II (Rick	(808) 843-8600	H-02-2344	
Aloha Liquers, Inc.	5 Sand Island Access Road, Bldg 929, Box 118,	Honolulu, HI 96819	Dave Fazendin	(808) 841-5787		
Aloha Tower Marketplace	1 Aloha Tower Drive	Honolulu, HI 96813	Marlene	556-2310		
Aluminium Shake Roofing, Inc.	5 Sand Island Access Road, Building 919-B,	Honolulu, HI 96819	Fred Rehm	847-8885	DOT-94-86	
Amazon Construction Company	5 Sand Island Access Road, Box 139,	Honolulu, HI 96819	duston onaga	(808) 841-6595	H-98-2104 DOT-96-136	
American Marine Corporation	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Roger Nall	808-545-5190	H-01-2277 H-01-2256 H-86-138	
Ameron International Corporation	2344 Pahounui Drive	Honolulu, HI 96819	Linda F. Goldstein	(808) 266-2672	S-6856	HIR00759
Anchor Construction Management Corp.	P.O. BOX 359	HAUULA, HAWAII 96717	David B. Thielem	(808) 306-0826	H-99-184	
ARA Contracting	1433 Kewalo Street #304,	Honolulu, HI 96822	Kenneth Park	(808) 387-6108	DOT-96-144	
Arita/Poulson General Contracting	P.O. Box 1035	Puunene, HI 96784	Steve Jorgensen	(808) 368-4764	H-98-2101	
Atlantic Submarine Hawaii	1600 KAPIOLANI BOULEVARD, SUITE 1630	Honolulu, HI 96814	Kekua	386-0123		
BCP Construction Company of Hawaii, Inc.	5 Sand Island Access Road, Box 112,	Honolulu, HI 96819	Timothy S. Burke	808-841-4574 x208	H-02-214	
Brookins Boatworks, Ltd.	5 Sand Island Access Road, Unit 117,	Honolulu, HI 96819	Gary Brookins	841-2525	H-03-2396	
Build Systems Intl (Hawaii), Inc.	664-A KAKOI STREET	Honolulu, HI 96819	Environmental Manager			
Burlington Environmental, Inc.	5 Sand Island Access Road, Box 161	Honolulu, HI 96819	Otto Audirsch	808-845-0032	DOT-94-77	
CB Tech Services	Sand Island Access Road, Box 102	Honolulu, HI 96819	fay	848-0060	DOT-95-108	
Central Pacific Distributing, Inc.	5 Sand Island Access Road, Box 127,	Honolulu, HI 96819	Brian Oda	(808) 848-0787	DOT-95-107	
Certified Sheet Metal, Inc.	1544 Mahiole Street,	Honolulu, HI 96819	Michael Yamauchi	(808) 372-3918		
Chang, David D and Eun Ik	P. O. BOX 30054	Honolulu, HI 96820	David Chang	808853-1122		
Chase Sales & Distribution, Inc.	5 Sand Island Access Road, Box 147,	Honolulu, HI 96819	Hank Hatakenaka	(808) 842-4588	H-11-2703	
City & County of Honolulu, Honolulu Fire Department	111 North Nimitz Highway, Pier 15	Honolulu, HI 96817	Captain Lance Orillo or Mr	808-523-4957	H-91-22	
City & County of Honolulu, Honolulu Police Department, Juvenile Servi	801 South Beretania St.	Honolulu, HI 96813	Lieutenant J. Averell Pedd	(808) 529-3881 H-20	03	
Classic Tile Corp.	P.O. Box 30568,	Honolulu, HI 96820	Casey	808-216-3801	DOT-93-13	
Clean Islands Council	179 Sand Island Access Road,	Honolulu, HI 96819	Tim Sawyer	536-5814	H-93-1815 H-90-1689 H-94-184	
Concrete Coring Company of Hawaii, Inc.	99-1026 Iwaena Street,	Aiea, HI 96701	John Neff / Nathan Sabey	(808) 488-8222	H-02-2355 / H-00-2235	
Conocophillips Company	P.O. BOX 7500	Barlesville, OK 74005	Environmental Manager			

Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number	Lease	Revocable Permit	NPDES Permits
Control Tech, LLC	P.O. Box 30992,	Honolulu, HI 96820	Melvin Tsue	(808) 847-7490		H-00-196	
Convention Set Builders	5 Sand Island Access Road, Box 103	Honolulu, HI 96819	Eric Van der Voort	808-216-1507		DOT-98-177	
Custom Bilt Metals	5 sand island access road. Building 928	Honolulu, HI 96819	Steve	808-479-1451			
DD-M Leasing, Inc.	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Tiare Ohelo	(808) 791-0067	H-300138	H-04-2467	
Dedrick, Dewain	701 North Nimitz Highway,	Honolulu, HI 96817	David Donaldson	(808) 587-7779	H-06-2552	H-02-2383	
Dependable Hawaiian Express, Inc.	703 North Nimitz Highway,	Honolulu, HI 96817	Ron Richardson	(808) 841-7311 x17	7	H-01-2285	
Division 8, Inc.	5 Sand Island Access Road, Box 126,	Honolulu, HI 96819	Brad Granger	808-845-8999		DOT-96-142	
Donahue, Shannon	P.O. Box 356,	Kihei, HI 96753	Shannon Donahue	808-330-1370			
Don's Makiki Service	1406 South Beretania Street,	Honolulu, HI 96814	Holly Moran	301-775-7692			
East West Marketing	95-1101 Wikao St.	Mililani, HI 96789	Bertram	753-7964			
Erik Builders, Inc.	50-CC Sand Island Access Road,	Honolulu, HI 96819	Jimmy Sakata	845-7736		H-98-2092 H-97-1984	
Five "C" Corp.	80 Sand Island Access Road, #226,	Honolulu, HI 96819	Eric Carlbom	832-0555		H-97-158	
Frank P. White Jr. Properties	2276 Pahounui Drive,	Honolulu, HI 96819	Frank White	(808) 841-5555			
Fresh Island Fish, LLC	1135 North Nimitz Highway	Honolulu, HI 96817	Derek Higa	808-831-4911	H-05-24		
Friends of Falls of Clyde	P.O. BOX 25008	Honolulu, HI 96825	Chris	263-4227			
Friends of Hokule'a & Hawai'iloa	P.O. Box 696,	Kailua, HI 96734	Jay Dowsett	808256-1841			
Fukunaga, Paul N.	1391 Haloa Drive	Honolulu, HI 96818	Paul N Fukunaga	842-1330		H-02-2339	
Gillis, Eugene	5928 Kalanianaole Highway,	Honolulu, HI 96821	Eugene Gillis	808-383-1959		H-02-2366	
Global Specialty Contractors, Inc.	5 Sand Island Access Road, Box 159,	Honolulu, HI 96819	Marvin G. Krael	808368-3993			
Great Pacific Wholesale Co., LLC	P.O. Box 31062,	Honolulu, HI 96820	Todd Patterson	(808) 395-8048		H-03-2399	
Hajalee Inc.	1010 Kaili Street	Honolulu, HI 96819	Jason Yang, Kevin Lee	(808) 841-8699		H-07-2592	
Hardy Construction Co., Inc.	2410 A Makiki Heights Drive,	Honolulu, HI 96822	William Hardy	(808) 845-0267			
Hawaii Explosives & Pyrotechnics, Inc.	P.O. Box 1244,	Keaau, HI 96749	Ronald Pascual	968-0600		H-02-2385	
Hawaii Maritime Center	1525 Bernice Street	Honolulu, HI 96817	Donald	523-6151	H-87-30		
Hawaii Painting & Wallcovering	P.O. Box 17038,	Honolulu, HI 96817-0038	Dean & Brian Negatoshi	(808) 479-6825		H-99-2153	
Hawaii Stevedores, Inc.	P.O. Box 2160,	Honolulu, HI 96805-2160	Ken Chung	808-527-3400 x415	5 H-90-4	H-98-2038 H-96-1912 H-92-17	R80A305
Hawaii Toys & Gifts	1547 Kokea Street,	Honolulu, HI 96817	danny ung	292-2023		DOT-96-133	
Hawaii Transfer Company, Ltd.	P.O. Box 665,	Pearl City, HI 96782	Joseph Aguon	677-3111 x134	H-98-9	H-02-2375	NGPC File No.
Hawaiian Aqua Products	1130 Wilder Avenue, Suite 102,	Honolulu, HI 96822	Yal M. Lim, Foo W. Lim	(808) 521-5468			HI R20A 196
Hawktree International	P.O. Box 17865,	Honolulu, HI 96817	Patrick Hee	808839-1120	H-02-1		HI R80A506
Heumann, James	P.O. Box 8672,	Honolulu, HI 96830	Jim Heumann	808220-7675			
Hirose Electric	P.O. Box 30448,	Honolulu, HI 96820	Gena or Kevin	(808) 848-8830		DOT-96-132	
Hi-Tec Roofing, Inc.	5 Sand Island Access Road, Box 157,	Honolulu, HI 96819	Tenali Hicks	808841-7663		DOT-94-59	

Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number	Lease	Revocable Permit	NPDES Permits
Honolulu Community Action Program, Inc.	33 South King Street, Suite 300	Honolulu, HI 96813	John Park	808277-3716			
Honolulu Marathon Association	3435 Waialae Ave Rm 208	Honolulu, HI 96826	Ronald Chun	808734-7200			
Hook Up Towing, Inc.	1843 Liliha Street, Apt. B,	Honolulu, HI 96817-2368	Randy	486-4665		H-03-2398	
Horizon Lines, LLC	1601 Sand Island Parkway	Honolulu, HI 96819	Frank Roznerski	808-842-5389	H-90-4		HI R808909
HPBS, Inc.	P.O. Box 721,	Honolulu, HI 96808	Fay Leong	532-7233		H-99-2159 H-93-1819	
HPC Foods, Ltd.	288 Libby Street,	Honolulu, HI 96819	Ron Yamauchi	(808) 848-2431 x 1	1 H-06-2563		
Industrial Chemical & Lubricants, Inc.	P.O. Box 30173,	Honolulu, HI 96820	Patricia Shinsato	842-4112		DOT-93-12 H-06-2542	
International Express, Inc.	P.O. Box 797,	Honolulu, HI 96808	David Hinchey / Kalani	(808) 841-6005	H-99-7	H-02-2370 H-98-171	
Ishikawa, Norman & Dolores	P.O. Box 2280,	Ewa Beach, HI 96706	Billy	808-778-1084		H-97-1988	
Island Beach Activities	P.O. Box 8181	Honolulu, HI 96830	John Salvio	808-223-8735		H-06-2543	
Jas W. Glover, Ltd.	PO Box 579	Honolulu, HI 96809	Maile Romanowski	808591-8978	H-06-2553	HI R70C472	HI R70C472
Jems Enterprises, LLC	1125 North Nimitz Hwy	Honolulu, HI 96817	Marshall Joy	(808) 538-6918	HAR-PM 49		
Jet Pro, Inc.	486 Cabot Road,	San Francisco, CA 94080	Margaret Guerrero	845-8826		H-00-202	
JFC International	P.O. Box 4404,	Honolulu, HI 96812	Toshiaki Wada	(808) 537-9528		H-02-2330	
Kagami, Inc.	P.O. Box 17129	Honolulu, HI 96817-0129	Wayne M. Kagami	(808) 523-5700	300135	Contract # H-05-2509, H-04-246	
Kirkwood, Clarke	50-C Sand Island Access Road,	Honolulu, HI 96819	Matt Buckman	(808) 306-6012		H-97-2000	
Kong Enterprises, Inc.	P.O. BOX 5187	Kaneohe, HI 96744	Richard Kong	487-3582			
K-Sea Transportation, Hawaii Division	Pier 21,	Honolulu, HI 96817	Bill Boland	522-1000 x108		H-01-2273 H-01-2249 H-93-18	
Kumu Corp and Transmission Hotline	50 K Sand Island Access Road,	Honolulu, HI 96819	Dan Kahler	808-232-2577		H-97-1995	
Lansdown, Ian J.	665 IANA Street,	Kailua, HI 96734	Jeff Lansdown	263-2383			
Marine Petroleum Corporation and Fuelman, Inc.	P.O. Box 29249,	Honolulu, HI 96820	Michael P. Rossman	841-0169		H-98-2082	
Marine Spill Response Corporation	179 Sand Island Access Road,	Honolulu, HI 96819	John	847-8144		H-94-1845	
Maritime License Center	707 Alakea Street, Suite 314	Honolulu, HI 96813	Charles Howard	589-0123		H-02-2364 H-01-2298	
Masuda, Richard	833 Ekoa Place,	Honolulu, HI 96821				H-97-1987	
Matson Navigation Company and Matson Terminals, Inc.	1411 Sand Island Parkway	Honolulu, HI 96819	Keahi Birch	848-1252	H-79-5	H-00-2225, H-99-2156, H-98-212	
Mauga-Olive Assembly of God	P.O. Box 4114	Honolulu, HI 96813	Setu Tiafane	(808) 778-0127		DOT-97-152	
McCabe, Hamilton & Renny	P.O. Box 210,	Honolulu, HI 96810	Andrew Souza	808-479-0356		H-99-2160; H-96-1911; H-93-182	
Military HQ	5 Sand Island Access Road, Box 123	Honolulu, HI 96819	Sandii Kamaunu	808843-0189			
Miller Industries, Inc.	5 Sand Island Access Road, Box 105,	Honolulu, HI 96819	William Miller	808848-0855			
Miller/Watts Constructors, Inc.	737 Bishop Street, Suite 2900	Honolulu, HI 96813	Vincent E. Fragomene	808-543-5201		H-06-2564	HI 06GC529 HI
MLC Int'l, LLC	P.O. Box 10459	Honolulu, HI 96816	Matty Lyum	808-282-5496		H-06-2541	
Moana Pa'a Kai, Inc.	P.O. Box 3288, Pier 40	Honolulu, HI 96801-3288	Nathan Kapule	(808) 543-9398			HI R80B059
Myung Soo Han	1617 Keeaumoku Street, #501,	Honolulu, HI 96822	Myun Soo Han	808-841-6688			

Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number	Lease	Revocable Permit	NPDES Permits
Nakamura, Rodney S.	2433 Rooke Avenue,	Honolulu, HI 96817	Rodney S. Nakamura	(808) 228-2551	600053		
Nanakuli Neighborhood Housing Services	P.O. Box 17489,	Honolulu, HI 96817-0489	Wilbert Barber	(808) 842-0770		H-01-2248	
Norko Marine Agency, Inc.	791 North Nimitz Highway,	Honolulu, HI 96817	Norman Cheu	808-216-4790		H-01-2314	
Oceantronics, Inc.	711 North Nimitz Highway,	Honolulu, HI 96817	Sharon	(808) 522-5600		H-98-2102	
Ohai, Leo A.	PO Box 37038	Honolulu, HI 96820	Nephi Ohai	531-2524	H-99-3		
P&R Water Taxi, Ltd.	P.O. Box 2851,	Honolulu, HI 96803	Ralph Dewitt	808554-3436		H-05-2504 H-91-1714	HI R80A153
Pacific Commercial Services, LLC	P.O. Box 235117,	Honolulu, HI 96813	Jingo Chang	808-545-4599	H-02-223	H-06-2529	
Pacific Divers Equipment Supply, Inc.	5 SAND ISLAND ACCESS ROAD, BOX 140	Honolulu, HI 96819	Thomas Coyne	808847-4455		H-08-2642	
Pacific Environmental Corporation	65 North Nimitz Highway, Pier 14,	Honolulu, HI 96817	Teal Cross / Jeremy Sirkin	(808) 545-5195		H-98-2055 H-96-1898 H-93-18	
Pacific Fishing and Supply, Inc.	504 N Nimitz Hwy	Honolulu, HI 96817	Roger Dang	533-1195		H-97-1969	
Pacific Ocean Producers, Inc.	1133 North Nimitz Highway,	Honolulu, HI 96817	Arlen Walsten	537-2905 x105	H-03-18	H-98-2096 H-98-2079 H-95-18	
Pacific Shipyards International, LLC	P.O. Box 31328,	Honolulu, HI 96820	Tom Atkinson	387-8925		H-98-2123 H-84-1229	HI0020753
Pang, Sandra	139 Mokauea Street,	Honolulu, HI 96819	Sandra Pang	(808) 848-0040		H-91-1735	
Paradise Cruise, Ltd.	5 Sand Island Access Road, Box 121,	Honolulu, HI 96819	Marc Rubenstein	(808) 536-6626	DOT 93-22		
Paradise Inn Hawaii, LLC	P. O. BOX 25367	Honolulu, HI 96825					
PBC Wholesalers, Inc.	5 Sand Island Access Road, Box 116,	Honolulu, HI 96819	Alan Nozawa	(808) 842-6565		DOT-94-76	
Pendeton Flour Mills, LLC	P.O. Box 1238,	Honolulu, HI 96807-1238	Tim Byam	(808) 527-3272		H-01-2283	
Petrospect, Inc.	499 North Nimitz Highway	Honolulu, HI 96817	David Harrington	(808) 536-6626		H-88-1517 H-87-1411	
Pioneer Machinery, Inc.	P.O. Box 22265,	Honolulu, HI 96823-2265	Rodney Yee	(808) 371-4892		H-90-1678	
Prime Builders	411 Hobron Lane, #912,	Honolulu, HI 96815	Damian Roncevich	(808) 371-5086		DOT-96-146	
Protech Roofing, LLC	5 Sand Island Access Rd, Box 163	Honolulu, HI 96819	Charles E. Spicgel	(808) 597-8120			
Pryne, Ty	742 Queen Street, Suite 301,	Honolulu, HI 96813	Ty Pryne	(808) 597-8120	1009557	H-01-2271	
Quick Move, Inc.	P.O. Box 26	Aiea, HI 96701	Eugene Fontanilla	808-486-7223		H-98-162	
Rebecca's Fine Collection	1585 Kapiolani Blvd., #812	Honolulu, HI 96814	Rebecca	478-6688			
Reef Development of Hawaii, Inc.	P.O. Box 1055	Aiea, HI 96701	Frank A. Machado. Mech	808-488-1228 x114		DOT-94-69	
Robert Marcos, Inc.	5 Sand Island Access Road, Box 143,	Honolulu, HI 96819	Mark Gaulke	(808) 841-1123		DOT-96-141	
Roberto's, Inc.	5 Sand Island Access Road, Box 137,	Honolulu, HI 96819	Grace Siu	808-843-1688 x110		DOT-96-131	
Ron's Concrete Specialist, Ltd.	P.O. Box 17370	Honolulu, HI 96817	James	808845-0467	H-982115		
Saito, Lincoln Timothy	1058 12th Avenue, Unit B	Honolulu, HI 96816	Timothy Saito	808-284-0420		H-97-1991	
Salassa, Fred	1845 Auiki Street,	Honolulu, HI 96819	Natalie Hew-Len	808-842-9133 x 12	H-99-6		
Sause Bros., Inc.	705 North Nimitz Highway, Fl. 2	Honolulu, HI 96817	Wayne Stachel for HNL, M	HNL: (808)306-217			
Schofield Federal Credit Union	P.O. Box 860669,	Wahiawa, HI 96786	Gary Yonamine, CEO	(808) 624-9884			
Sea Engineering, Inc.	863 N Nimitz Hwy	Honolulu, HI 96817	W. Patrick Ross	(808) 536-3603	H-01-2289		

Lessee	Mailing Address	City and Zip Code	Inspection POC	Phone Number	Lease	Revocable Permit	NPDES Permits
Shobu's Refrigeration & Air Conditioning	45-616 APUAKEA STREET	Kaneohe, HI 93744	Environmental Manager				
Siu, Wai Lun	750 N. Nimitz Hwy	Honolulu, HI 96819	Raymond Siu	(808) 597-8120			
Southern Food Group	925 Cedar Street,	Honolulu, HI 96814	Jason Fujimoto	(808) 630-7401			
State of Hawaii Department of the Attorney General/Criminal Justice	425 Queen Street,	Honolulu, HI 96813	Kern Nishioka	(808) 586-1383			
Steinke Brothers, Inc.	98-889 Kaahele Street,	Aiea, HI 96701	Robert Steinke	(808) 488-9668		H-97-1981	
Submarines Hawaii, L.P.	680 Iwilei Road, Suite 700,	Honolulu, HI 96817	Laki Sagiao	808823-7750		H-99-2168	
Sun Chong Company, Ltd.	5 Sand Island Access Road, Box 148,	Honolulu, HI 96819	Kevin Lam	(808) 381-2495		DOT-94-71	
Tai Polythene of Hawaii, Inc.	60 Laimi Road,	Honolulu, HI 96817	Tai Lee	(808) 848-5591		DOT-97-148	
TBC, LLC	1172 Lunaai street	Kailua, HI 96734	Patrick Casey	808292-7468	H-06-2522		
The Custom Co., Inc.	205 Kalihi Street,	Honolulu, HI 96819	Caroline	808-843-2805			
The Gas Company, LLC	P.O. Box 3000,	Honolulu, HI 96802-3000	Zoe Williams	808594-5637	H-06-28		
The Pasha Group	677 Ala Moana Blvd., Suite 700	Honolulu, HI 96813	Darren Lee	(808) 590-3617		H-06-2565	
The Sussex Co., Inc.	2270 Makiki Heights Drive,	Honolulu, HI 96822	Tony Sussex	(808) 537-3001		H96-128	
The Webe Corporation, Ltd.	680 Iwilei Road, Suite 700,	Honolulu, HI 96817	Laki Sagiao	808779-4041	H-84-11	H-05-2508	
Theophyllus, Inc.	224 Mokauea Street,	Honolulu, HI 96819	Layne Kano	(808) 848-8844 x23	3		
Tropical J's, Inc.	5 Sand Island Access Road, Box 122,	Honolulu, HI 96819	Chris	848-0888		DOT-94-80	
Tropical Rain Gutter and Roofing, Inc.	5 Sand Island Access Road, Box 141,	Honolulu, HI 96819	Kim Beattie	(808) 847-0030	H-02-217	H-02-217	
U.S. Bureau of Customs and Border Protection, Department of Homel	300 Ala Moana Boulevard, Room 2-267	Honolulu, HI 96813	Nancy Grahm	808-522-8001 X223	3	H-03-2419 H-97-1934	
Uniroc Marble & Granite	5 Sand Island Access Road, Box 101,	Honolulu, HI 96819	Jonathan N. Ing	808845-5586			
United Fishing Agency, Ltd.	1131 North Nimitz Highway,	Honolulu, HI 96817	Daniel Otani	(808) 536-2148			
Unitek Technical Services, Inc.	P.O. Box 29177,	Honolulu, HI 96820	Frank Schumann / Tony	447-2619		H-99-182	
Universal Wholesalers	P.O. Box 160927,	Honolulu, HI 96816	Patrick Chan	(808) 842-7427			
Van, Kevin	Pier 20, Warehouse #6,	Honolulu, HI 96817	Kevin Van	808521-6076			
Viking V., Inc	309 Ilihau Street,	Kailua, HI 96734-1856	John Myking	(808) 254-6228		H-05-2515	
Welsh, JR., Darrell, G., AIA	One Aloha Drive, Box 63	Honolulu, HI 96813	Darrell G. Welch Jr., AIA	(808) 585-8522		H-99-2134	
Wikoliana Educational Excursions, LLC	665 IANA STREET	Kailua, HI 96734	IAN JEFFREY LANSDOWN	230-0940			
Windward Moving and Storage	5 SAND ISLAND ACCESS ROAD, BOX 140	Honolulu, HI 96819	Greg Hamilton	808-845-6100			
Y. Fukunaga Products, Ltd.	5 Sand Island Access Road, Box 125,	Honolulu, HI 96819	Neal M. Otani	(808) 841-1555		H-02-2353	
Y. Hata & Company, Ltd.	285 SAND ISLAND ACCESS ROAD	Honolulu, HI 96819	Chad Diaz	808-864-2615			
Yim, Donald T.	5 Sand Island Access Road, Box 153,	Honolulu, HI 96819	Donald Yim	(808) 841-3911		H-03-2406	
Young Brothers, Ltd.	P.O. Box 3288,	Honolulu, HI 96801	Nathan Kapule	(808) 543-9398			HA R80A119





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 SOUTH NIMITZ HIGHWAY HONOLULU, HAWAII 96813-4898

September 28, 2011

GLENN M. OKIMOTO DIRECTOR

Deputy Directors
JADE T. BUTAY
FORD N. FUCHIGAMI
RANDY GRUNE
JADINE URASAKI

IN REPLY REFER TO:

HAR-EE 1592.12

TO:

HARBORS DIVISION TENANTS

FROM:

RANDY GRUNE

DEPUTY DIRECTOR - HARBORS

SUBJECT:

ANNUAL TENANT STORM WATER SELF-INSPECTION FORM AND

NOTIFICATION OF ANNUAL AWARENESS TRAINING

We require that you carefully read, fill-out and return the attached Tenant Self-Inspection (TSI) Form.

The returned TSI Form will provide us essential information about your operational activities and storm water management practices that will aid us to comply with mandated requirements of the Federal Water Pollution Act, commonly referred to as the Clean Water Act (CWA), and State of Hawaii requirements under the Department of Health, Hawaii Administrative Rules (HAR). The regulations are defined in Title 40, Code of Federal Regulations (40 CFR), Parts 122 and 123, and in the HAR, Chapter 11-55. The regulations establish a framework that governs the discharge of storm water runoff into waters of the United States, and could impose penalties of up to \$27,500 per day per violation for non-compliance.

The Harbors Division has obtained coverage from the Department of Health to operate the storm drainage systems which discharge into Honolulu Harbor and Kalaeloa Barbers Point Harbor. The TSI Form is designed to help you and allow us to assess compliance with state and federal regulations, and our discharge permits. The form must be completely filled out and returned by October 31, 2011. Please send the completed TSI Form to the Harbors Division, Attention: Randal Leong, Environmental Engineer, 79 South Nimitz Highway, Honolulu, Hawaii 96813. You may also deliver the form in person to one of the two tenant training meetings detailed below.

We are enclosing three handouts pertaining to matters that all Harbors Division tenants need to be aware of. The three topics addressed are: (1) Washing of equipment and vehicles; (2) Construction of improvements for, on or within your area; and (3) Material Storage Best Management Practices.

We are also notifying you of our third annual mandatory storm water awareness training meetings where we will share information with all of our tenants about the present status of our Storm Water Management Programs established under the Honolulu Harbor and Kalaeloa Barbers Point Harbor

Harbors Division Tenants Page 2 September 28, 2011

Small Municipal Separate Storm Sewer System (MS4) Permits. We will discuss the history and direction of the programs, how they impact your tenancy with Harbors Division and discuss the contents of the enclosed handouts.

For your convenience, two sessions will be provided for facility owners, environmental managers and/or other representatives of your company at the Honolulu Harbor Pier 2 Passenger Terminal on October 19 and 20, 2011, from 10:00 am to 12:00 noon, with check-in starting at 9:30 am. Please send at least one representative from your company to either of the two sessions. Parking is available at the Pier 2 Passenger Terminal parking lot at no charge.

If you have any questions, please contact Mr. Randal Leong, Harbors Environmental Engineer at 587-1962.

Att: Tenant Self-Inspection Form Handouts (3)

STORMWATER BEST MANAGEMENT PRACTICES



Building and Remodeling

The storm drainage system at our harbor facilities collects rainfall from storm events and releases it directly, without treatment, into the harbor. Sediment is the pollutant of most concern during construction due to the removal of soil cover. Heavy metals and nutrients attach to soil particles that, if allowed to reach the storm drain, degrade water quality. Other items of concern include paints, thinners, mortars and construction rubble/debris.

Implementing Best Management Practices (BMPs) and good housekeeping practices will help maintain water quality in the harbor.

NOTE: SUBMITTAL OF BUILDING OR REMODELING PLANS TO THE HDOT HARBORS DIVISION FOR FORMAL APPROVAL IS REQUIRED

BMP Implementation

Soil Erosion and Sedimentation

- · Minimize removal of existing vegetation.
- Reduce traffic on disturbed soils and divert runoff around them.
- Re-vegetate as soon as possible using native seed mix and mulch.
- Frequently sweep soil back from streets and sidewalks.
- Dry sweep paved surfaces rather than hosing down or using blowers.
- Use sediment control devices, including silt fences, inlet protection, diversion ditches, and swales to minimize off-site migration of soil.

Housekeeping During Work

- Properly store and dispose of materials such as paints and solvents.
- Properly contain and dispose of mop water, sweepings, and sediments.
- Use non-toxic substitutes for chemicals when possible.
- Inspect vehicles and equipment for leaks regularly and fix problems as soon as possible.
- Keep a spill kit of absorbent material, such as kitty litter or sand, and safety equipment, such as safety glasses and gloves, in case a spill does occur. Never hose down an area to clean up after a spill.
- Control litter by sweeping and picking up trash on a regular basis.
- Cover dumpsters and replace leaking ones.

Train employees (document) on proper materials storage, handling and spill response responsibilities. Report all spills in accordance with the Hawaii Department of Health's (HDOH) Spill Reporting and Emergency Response requirements found at the link below and document response actions. http://hawaii.gov/health/environmental/hazard/spill.html

The State Department of Transportation,
Harbors Division has developed the Storm
Water Management
Program (SWMP) in compliance with the National Pollutant
Discharge Elimination
System (NPDES) and the State of Hawaii
Municipal Separate
Storm Sewer System
(MS4) General Permit requirements.

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

Phone: 808-587-1962

Website:

http://hawaii.gov/dot/ harbors/library/stormmanagement-plan

STORMWATER BEST MANAGEMENT PRACTICES



Outdoor Material Storage

Responsible storage of chemicals, such as paints, solvents, and cleaners can significantly reduce polluted storm water runoff. Containerized products (such as bottles, cans, and drums) and bulk material must be handled properly in all stages of storage, use, and disposal. In many cases, businesses can implement simple housekeeping practices in order to store materials more effectively. Proper storage practices reduce the likelihood of accidental spills or releases of hazardous materials during storm events. In addition, health and safety conditions at the facility will improve.

BMP Implementation

Outdoor material storage should be placed only in designated areas specifically designed to contain spills and prevent contact with storm water. Store liquids in an area where containers cannot be knocked over and releases can be contained.

- Avoid positioning upstream or adjacent to storm drainage features.
- Place bagged materials on pallets and under cover.
- Utilize impervious surfaces and containment devices (e.g., dikes, curbs) to contain possible leaks and prevent storm water run-on/off.
- Store all containers under cover to protect from rain and sun.
- Close and secure any opened containers, and utilize drip pans for dispensing from containers.
- Cover stockpiles with plastic or comparable material when not in use or at the end of each day.
- Provide physical diversion to protect stockpiles from concentrated runoff.
- As necessary, place silt fence, fiber filtration tubes, or straw wattles around stockpiles.

Appropriate spill response procedures, including notification, initial response and follow-up actions, should be developed and posted.

- Keep a spill kit appropriate for the materials in a readily accessible location, stocked, and ready for use (re-stock after each use).
- Clean up spills immediately using absorbent material or containment booms for liquid spills. Immediately sweep up and properly dispose of used absorbent materials.
- Always use dry methods to clean spills (sweeping) and never hose down the spill area.

Periodic inspections should be performed to verify that the conditions of containers, secondary containment devices, and other structural controls are acceptable. Train employees (document) on proper storage, handling and spill response responsibilities. Report all spills in accordance with the Hawaii Department of Health Spill Reporting and Emergency Response requirements (http://hawaii.gov/health/environmental/hazard/spill.html).

The State Department of Transportation, Harbors Division has developed the Storm Water Management Program (SWMP) in compliance with the National Pollutant Discharge Elimination System (NPDES) and the State of Hawaii Municipal Separate Storm Sewer System (MS4) General Permit requirements.

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

Phone: 808-587-1962

Website:

http://hawaii.gov/dot/ harbors/library/stormmanagement-plan

STORMWATER BEST MANAGEMENT PRACTICES



Vehicle and Equipment Washing

Wash water from vehicle and equipment cleaning activities performed outdoors or in areas where wash water flows onto the ground can generate dry weather runoff contaminated with detergents, heavy metals, oils and greases, toxic substances, sediments, and other pollutants.

Releasing pollutants directly or indirectly into the storm drain system or the harbor by vehicle or equipment washing is a violation of the Harbor Municipal Separate Storm Sewer System (MS4) General Permit. Proper employee training, BMP implementation, and pollution prevention methods are required for compliance with the Harbor's Storm Water Management Program (SWMP).

BMP Implementation

Primary Option: Off-site Washing

Facilities with small fleets should consider contracting with a commercial car wash. Commercial car wash facilities often recycle their water or are required to treat their wash water discharge prior to release into the sanitary sewer system. Pressure cleaning and steam cleaning should be done off-site to avoid generating runoff with high pollutant concentrations.

Secondary Option: On-Site Washing

NOTE: ON-SITE WASHING IS ALLOWED ONLY AFTER WASHING PROCEDURES ARE SUBMITTED TO THE HDOT HARBORS DIVISION FOR FORMAL APPROVAL

Vehicle and equipment washing should be conducted only in designated areas specifically designed to collect and hold generated wash and rinse water.

"For small jobs, berm the area surrounding the vehicle and use a wet/dry vacuum to capture the wash water for discharge to the sanitary sewer. For larger jobs, use a combination of berms and a vacuum truck, such as those used to clean storm and sanitary sewer systems, to capture and safely dispose of wash water. If detergents are used, clean the pavement to prevent this material from being carried to the storm drain during the next rainstorm." 1

The contained wash water effluent should be recycled, discharged to the sanitary sewer system (permit may be required) or collected for off-site disposal at a permitted facility. Additionally, designated wash areas should be paved and contained using berms and a sump. Use hose nozzles with automatic shut off and bio-degradable soaps where appropriate. Inspect paved surfaces within the wash area and clean periodically to remove buildup of particulate matter or other pollutants. Vehicle maintenance, chemical storage, and other activities that could release pollutants are prohibited in washing areas. Train employees on proper cleaning, maintenance, and wash water disposal procedures. Documentation of this training should include a list of attendees, the date, the topic covered, and signatures of attendees.

¹ EPA Municipal Vehicle and Equipment Washing BMP Fact Sheet

The State Department of Transportation,
Harbors Division has developed the Storm
Water Management
Program (SWMP) in compliance with the National Pollutant
Discharge Elimination
System (NPDES) and the State of Hawaii
Municipal Separate
Storm Sewer System
(MS4) General Permit requirements.

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

Phone: 808-587-1962

Website: http://hawaii.gov/dot/ harbors/library/stormmanagement-plan





Tenant Stormwater Compliance Self Inspection Form

Company Information							
Business Name(s)							
Mailing Address for HDOT Harbors Division Correspondence							
Street Address 1							
Street Address 2							
City, State							
Zip Code							
Point(s) of Contact for Stormwater Compliance							
Telephone Number							
Email Address							
Fax Number							
Tenant Since (month/year)							
Alternate Contact Name							
Facil	ity Information (only facilities on Harbors Division property)						
Harbor(s)	Honolulu Harbor Kalaeloa Barber's Point Harbor (chec	k all that app	ly)				
Facility Location(s)		Same a	s above				
(Pier, street address, building,							
or other directions for visitors)							
	Tenant Information						
List Sub-tenants (if applicable)							
EPCRA Section 313 SIC Code							
Lease Number							
Permit Number							
Business Activity Description							
	Pollution Prevention Info						
	lucts over 1,320 gallons total (over 24 55-gallon drums or bulk						
storage. Note: Count only conta	iners over 55 gallons)?	YES	NO				
Title 40 CFR, Part 112)?	an (Spill Prevention Control and Countermeasures) (Regulationate SPCC Plan, approved and certified by a registered and submit it previously.	YES	NO				
Do you have a National Pollutar General Permit Coverage (NGF	nt Discharge Elimination System (NPDES) Permit or Notice of C), if so what is the number?	YES	NO				
Do you generate any Hazardou Generator Identification Numbe	s Waste? If so identify the waste and provide your EPA	YES	NO				

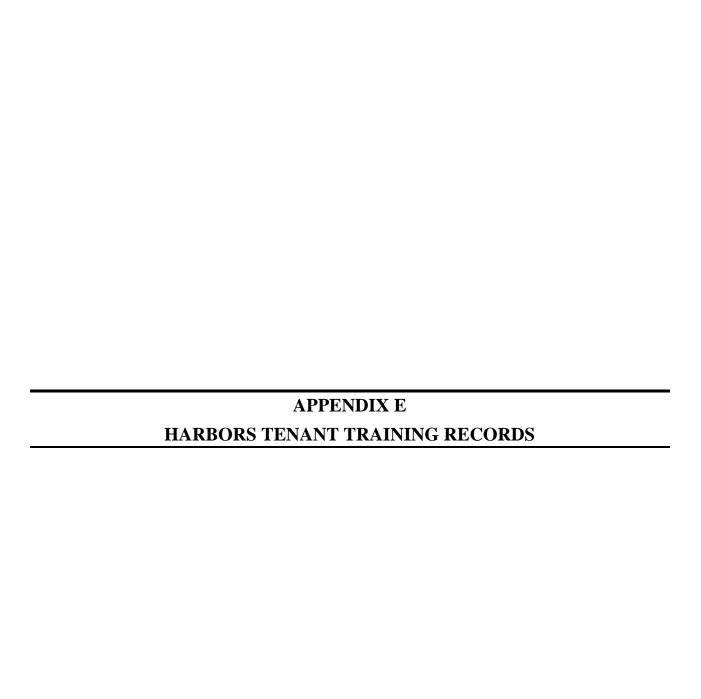
Weston Solutions, Inc. 1 of 3 10/17/2011

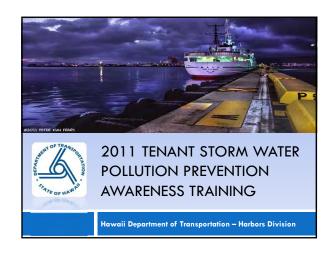
Pollution Prevention Info (Continued)								
What chemicals, which could pollute storm water runoff if released, are presently being stored on-site? (Attach additional sheets as necessary)								
Chemical Name	Qua	ntity	Metho	d of Storage	Outdoor / I	ndoor		
Check possible pollutandisposed of in the areas lubrication oil leaks from	where potential pollu	ants may com	ite. This shou	uld include any cher ct with rainwater and	nicals that are use d/or water runoff. A	d, stored, or also include		
Acid Waste	Non-halogenated Solvents*	d Alkaline	e Waste	Oils and Greas	se Arsenic			
Pesticides	Cadmium	Petrole Hydrocarbo		Chromium	PCB's			
Copper	PhenoIs	Cyanid	e	Selenium	Haloger Solvents	nated		
Silver	Herbicides	Thalliur	m	Mercury	Zinc			
Nickel	Lubrication oil leaks		FR 261.30 fo non-halogen	or ated solvents)				
Are there any other poss	sible pollutants at you	r facility/site: (I	Identify them)				
Does your facility operat	te under a Departmen	t of Army Perr	mit (Section 4	101 WQC)?	YES	NO		
Are there any other Fed	eral Permits that you	are required to	submit? If s	o identify the permit	is.			
Where does your storm	water discharge?							
Do you have any floors/o	decks located in chen	nical storage a	reas		YES	NO		
Do you have to submit S	SARA III reporting?				YES	NO		
Please provide a copy o	of your facility plans/dr	awing.						
Attach copies of any storm water studies conducted at your facility.								

Weston Solutions, Inc. 2 of 3 10/17/2011

Pollution Prevention Info (Cor	ntinued)		
Non-storm water discharges can be activity-based (subtle) or overt (pipe discharges include, but are not limited to: wash water, diluted solvents/ch spillage. Typical overt discharges include, but are not limited to: process wastewater.	emicals, floor/dock-apror	n sweeper v	waste, and
Any post-construction runoff control measures (such as detention basins be maintained by the occupant as per the tenant lease agreement. These identified during annual on site tenant inspections.			
Are you aware of any non-storm water discharges or unauthorized conne or groundwater surfaces at your facility?	ctions to storm drains	YES	NO
If yes, please describe location and nature of discharge.			
Are floor drains or deck drains located in the areas of chemical storage of at your facility? If yes, where is the discharge point? Sanitary sewer Ground surface Unknown	r chemical use, present	YES	NO
Cantary Sewer Cround Surface Criticiowii			
Points of Contact for Water Pollution	on Reporting	'	
The responsibility to maintain the cleanliness of Hawaii's coastal water lie residents. We all need to pitch in to anticipate, prevent and report inapprodischarges may be made to:			
Point of Contact	Telephone Number		
Marine Traffic Control Center	808-587-2076		
Marine Cargo Specialist	808-587-2053		
City and County of Honolulu Environmental Concern Hotline	808-768-3300		
Department of Health, Clean Water Branch	808-586-4309		
Coast Guard	1-800-424-8802		
Feedback			
We want to hear from you on how we can improve this program. Please f feedback on the information provided and the content of this form.	ill out the comments sect	tion below t	o provide
Did you find the information in this mailing useful?	YES	NO	
Comments:	1	ı	

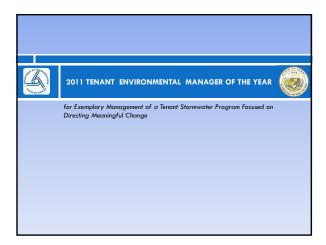
Weston Solutions, Inc. 3 of 3 10/17/2011





Introduction

- □ Hawaii Department of Transportation Harbors Division
 - Randy Grune Deputy Director
 - □ Carter Luke PE Engineering Program Manager
 - Randal Leong PE Environmental Engineer
- □ Jim Galariada Environmental Health Specialist
- Weston Solutions, Inc.
- □ David Johnson
- Mark Ambler PE, PMP
- Joe Weidenbach
- Sandy Peterson
- Anthony Rodriguez
- □ Hawaii Department of Health
 - Matthew Kurano







AGENDA

- Regulatory Background
- □ Harbors (Small MS4) General Permit Requirements
- Public Education
- Public Participation
- □ Illicit Discharge Detection and Elimination (IDDE) Program
- Construction Site Run-Off Control
- Post Construction Control
- □ Video Presentation (20 mins) "Storm Watch"
- $\hfill \square$ Pollution Prevention and Good Housekeeping
- □ Facility Inspections
- □ Enforcement Response Program
- □ Contact Information
- Questions and Answers

FEDERAL REGULATORY BACKGROUND

- Clean Water Act (40 CFR 100-149)
 - 1972 Clean Water Act- Swimmable, Fishable
- 1987 Amendements NPDES (National Pollutant Discharge Elimination System) regulations
- □ NPDES Environmental Protection Agency Regulatory Authority
 - □ Phase I issued in 1990 Individual Permit
 - Industrial Facilities (PENDING MODIFICATION AND RENEWAL)
 - Construction Sites > 5 acres (PENDING MODIFICATION AND RENEWAL)
 - Medium and Large Municiple Separate Storm Sewer System (MS4)
 - □ Phase II issued in 1999 General Permit
 - Small MS4
 - Construction Sites > 1 acre, < 5 acres (PENDING MODIFICATION AND RENEWAL)
- MS4 conveyance that is owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.; designed or used to collect or convey stormwater; and not combined with sewer.

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

RECENT PROGRAM HISTORY

- □ HDOT Harbors General Permit May 19, 2003
- □ EPA Audit December 2008
- □ Finding of Violation June 18, 2009
- □ Tenant Inspections 2009 (44)
- □ Inspection Reports 2010
- □ Stormwater Management Plan Revision Dec 2009
- □ Tenant Inspections 2010 (AII)
- Deficiency Letters 2011

GENERAL PERMIT REQUIREMENTS

Minimum Control Measures

Each Mininum Control Measure Requires:

- Enforcement
- □ Public Education & Outreach
- □ Public Participation & Involvement
- □ Illicit Discharge Detection & Elimination
- Construction Site Runoff Control
- □ Post-Construction Runoff Control
- □ Pollution Prevention & Good Housekeeping

General Permit Allowable Discharges*

- Water Line Flushing
- Landscape Irrigation
- Diverted Stream Flows
- Rising Ground Water
- Uncontaminated Ground Water Infiltration
- □ Uncontaminated Pumped Ground Water
- Discharges from Potable Water Sources
- Air Conditioning Condensate
- □ Crawl Space Pumps and Footing Drains
- Dechlorinated Swimming Pool Water
- □ Discharges from Fire Fighting Activities

* Unless discharges "Cause or contribute to water quality objective exceedances."

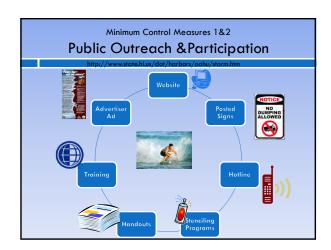
UNDERSTANDING POLLUTANT TRANSPORT AND MANAGEMENT STRATEGIES

Understanding the source, vehicle, and route of storm drain pollution is key to cost effectively managing facilities and discharges.

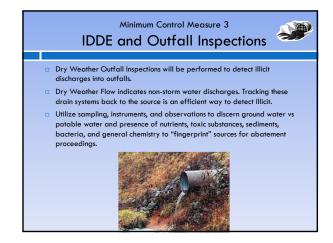


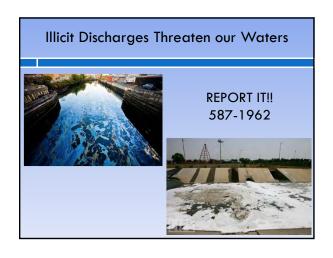


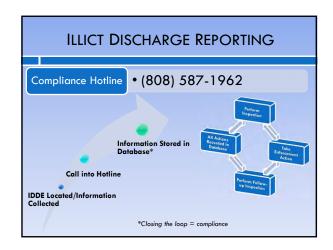














BUILDING AND REMODELING

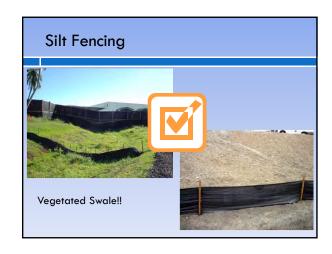
- □ All construction (even < 1 acre) must receive formal, written approval from HDOT Harbors Division
- All construction over 1 acre must receive NPDES permit from HDOH prior to breaking ground













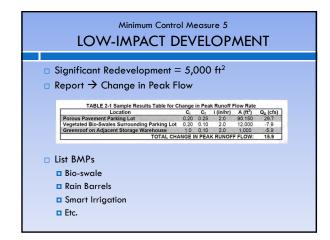






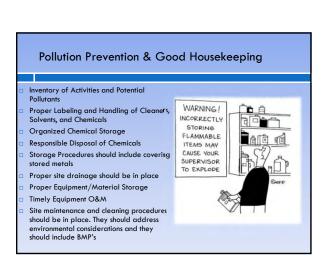






















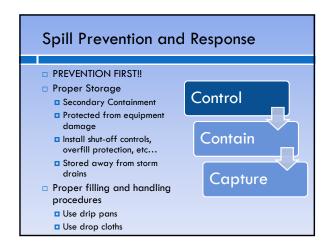




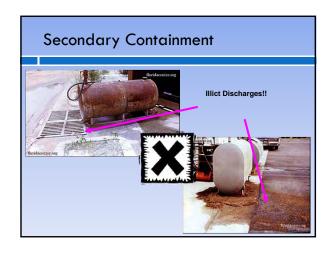






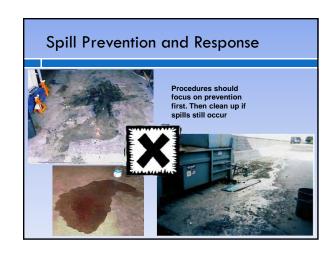
















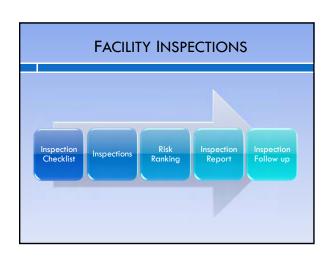


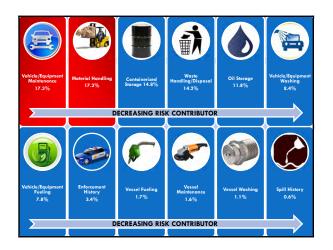




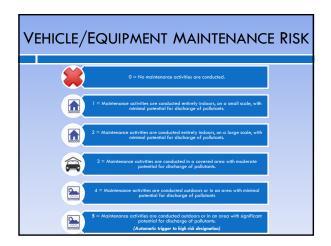


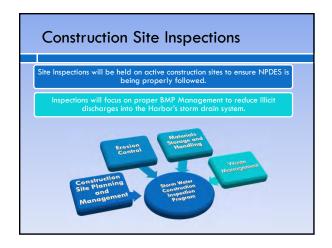
Tenant Facility Inspections 1 week notification High Priority Tenants First, then ALL TENANTS Inspection Checklist Inspection Report and Findings to be provided following Site Visits Follow-up Inspections will be scheduled if required SERIOUS VIOLATIONS WILL RESULT IN IMMEDIATE ACTION Depending on the severity of the discharge, regulatory actions may be pursued. All inspection results and actions will be added to our database. Risk ranking developed based on findings

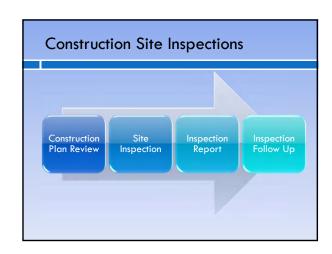




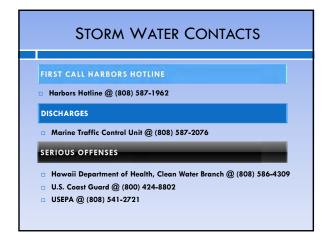
















References http://megi.bz/wp-content/uploads/2009/04/oil-runoff-into-storm-drain.jpghttp://www.octopuscarwash.com/IMG_0014.jpg http://www.californiagreen solutions.com/images/Parker-powerwash 328.jpghttp://s3.images.com/huge.70.351214.JPG http://www.pneac.org/stormwater/pg-stockpiles.cfm $http://www.victorystore.com/signs/property_management/images/dumping-1.gif$ $http://www.ars.usda.gov/sp2userfiles/ad_hoc/19000000SafetyHealthandEnvironmentalTraining/graphics/ChemicalHumor.jpg$ http://urbanneighbourhood.files.wordpress.com/2009/06/greenroof3.jpg http://www.landcareresearch.co.nz/research/built/liudd/images/DSCN2718.JPG http://www.multi-clean.com/lcons/Dfe%20icon.gif http://www.northsydney.nsw.gov.au/resources/images/street_cleaner.jpg http://www.suntreetech.com/files/Images/Products/Curb-Inlet-Protector/curb%20inlet%20protector%204.jpg

References

- http://images.google.com/imgres?imgurl=http://www.hinkleycenter.com/photos/hozwaste/images/hozwast e%22200%281%29.jpg3.imgrefurl=http://www.hinkleycenter.com/photos/hozwaste.himäusg=__DOddnibol2z ElpfohlBoZTDIS_A=8h=3338-w=498xs=2458h=eastant=26um=18tbnid=-GznlISKe1278w.ätbni=878.tbnw=130&prev=/images%35°g/33Dimproper%28storage%28of%28chemical 9%26Dimgx%360m32com36v32com36v32Dis-2com%3DI
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- http://www.martinatc.com/images/Picture%20004.jpg
- $http://www.fluid-tech-inc.com/template_assets/images/air8.jpg$
- http://images.google.com/imgres?imgurl=http://www.bayoreagreersolutions.com/productphotos/page-5-400.ipga/imgrefurl=http://www.bayoreagreensolutions.com/pressure_washing.html&usg=_RApu12fF54E4-wnc-q1bi.0-gQBl==8h=6018_e=0068_e=0068_e=058hl=en8stor=18thold==0ApaxYDU8h1Ms&thoh=1358thow=908prev=/images%3Fq%3Dressure%2Bwashing%2Bcontainment%26gbs/%3D2%26hl%3Den
- http://www.ci.manteca.ca.us/pwt/engdiv/sdeng/img/cw2.jpg

References

- http://www.miraclepowerwashing.com/images/construction-heavy-equipment-cleaning.png
- http://www.hydroboss.com/Images/action1.jpg
- http://www.ntxsd.net/_borders/sm_Dozer.jpg
- $http://upload.wikimedia.org/wikipedia/commons/3/3c/Drain_runoff_in_Kharkiv.jpg$
- http://asianautoworks.com/images/asianautoworks_oilchange.jpg
- http://www.sea-way.org/blog/WWFad BIG01.JPG
- http://www.globalspec.com/NpaPics/99/349038_062220093865_ExhibitPic.jpg
- http://www.basicconcepts.com/new.as
- $\label{lem:http://www.pelicanparts.com/techarticles/911_oil_return_tube/911_oil_return_tube_pic14_big.JP\ G$
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References

http://www.threetheetnorthwest.com/files/2009/02/sallbootpressure-workrep.ipg
http://www.threetheetnorthwest.com/files/2009/02/sallbootpressure-workrep.ipg
http://citable.com/ruckfrailes/2009/02/sallbootpressure-workrep.ipg
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Weston Solutions, Inc

Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

HDOT HARBORS STORMWATER MANAGEMENT TENANT TRAINING October 19, 2011



SIGN-IN SHEET

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STORMWATER MANAGEMENT TENANT TRAINING **HDOT HARBORS** October 19, 2011



SIGN-IN SHEET

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STORMWATER MANAGEMENT TENANT TRAINING **HDOT HARBORS** October 20, 2011



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COMPANY	PRINT NAME	SIGNATURE	VOLUNTEER FOR PHONE/EMAIL CLEAN-UP?	OR P?
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Matson	Enriqueta Tanaka	2 Profes	848-1241 etanaka@masson.com	البلي
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COMPANY ATLANTIS SUBMABINES	TRICKUS OF FALLS OF CLYDE State of LAI, D.O.T.	Dot Helphs Division Triple F Dist.	Pevalleran Floor Mills 11C	Watrice Shinsate	HI-SEA HAWAII FISHING						

VOLUNTEER FOR

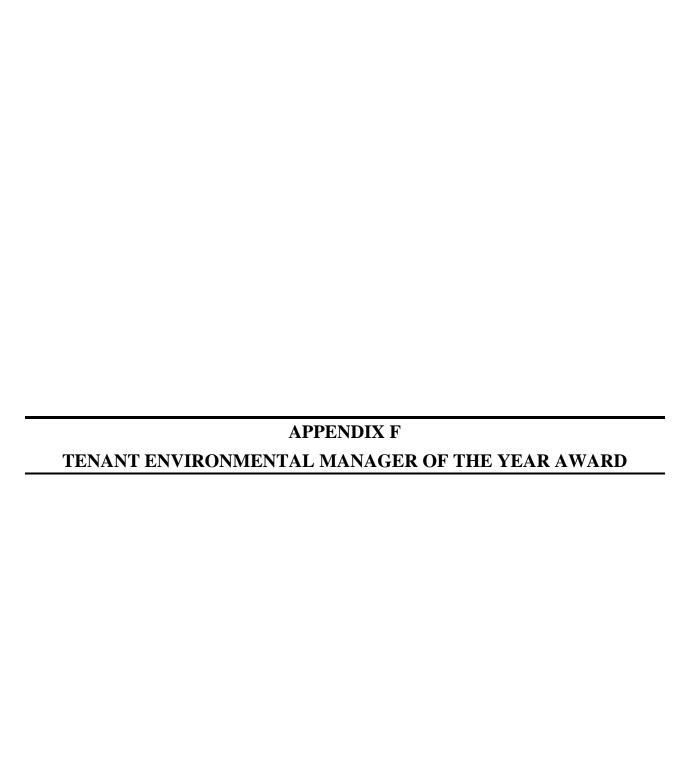
Weston Solutions, Inc Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

STORMWATER MANAGEMENT TENANT TRAINING October 20, 2011 **HDOT HARBORS**



SIGN-IN SHEET

VOLUNTEER FOR CLEAN-UP?		DA. COM		sursa, net				yes	des	1000 1000 1000 1000 1000 1000 1000 100		2 2	Specific Lava ne +	5.5. Co	Chquaii gov.	EXP GMAIL, CO	SSEXPOGUMC	ž
V PHONE/EMAIL	963 201 15 Oc	918-1252 third mutson con	755-764	Sitt 1171 Shorseman Omusisarnet	285.4785	H#h - 1 h8	1218 48vo7	271292	1 11	(603)978-6800 than is seasong hearly con	8723848	GOD) 845-04 6 TE FOUSAUROUTE	(808) 8477490/ etch	1200	587 2070 alan movalcani Chquaii gov.	537-3001 TUNY SUESEXP GRUTHILICA	S37-301 TONY SUSSEXPGMMC,	
SIGNATURE	Patrick Seller	Xo. B.		Bet Altor		NAS O	C C C C C C C C C C C C C C C C C C C	Andre Saka	Elesand Of	101	72/60	Far Wo	Braula (Chi		Selling.	(the forms)	(H My China	
PRINT NAME	Sarand Court PATAICK Gillow	n Kenti Birch	TOCK SATCHAMENT	Brett Houseman	ENFRENCE FOR TALLIC	CAWOLING PASCUIS	Jewifer Haught	Manny Galaita	Edward Chen	TOR HARRIS	DON KAUISIALAND		Parisan Hunashi	Contria Jacker	NIN MURAKAMI	100% SUSSIEX	TONY SULGIEX	
COMPANY	Clean Saland Court	Matson Naviertran	CAST WEST MACKETER	Marisco Ltd.	JUICK MOYE	THE CUISTON COMPANY	Passific Shappards Inte.	LICAS Head Start	1 7	Sea Engineering	Dot / Haragan	Don's Congress Signing	Control Tech LC	Hi-Ter Knoting	1201-1172 holom 5	THE SUSSEX CO	THE Pays CWB	





EXECUTIVE CHAMBERS

HONOLULU

NEIL ABERCROMBIE GOVERNOR

October 19, 2011

Mr. Nathan Kapule Safety and Environmental Manager Young Brothers, Ltd. P. O. Box 3288 Honolulu, Hawaii 96801-3288

Dear Mr. Kapule:

I am pleased to present you with our first annual Department of Transportation Harbors Division Tenant Environmental Manager of the Year Award.

The Harbors Division will annually recognize an outstanding Tenant Environmental Manager that implements meaningful change in their facility environmental practices and company environmental culture. I laud your efforts as a leader in implementing environmental policies for your company.

Your environmental program was chosen from 44 tenant programs that were evaluated during the annual Storm Water Compliance inspections in 2009 and 2010. The award represents the positive contributions you and your company have made toward protecting our valuable ocean resources. The changes and programs implemented 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 an example for others to follow as they improve their environmental systems.

Please continue to work with the Harbors Division and all Harbors Division tenants in keeping our ocean resources clean and ensuring its protection for future generations.

Sincerely.

NEIL ABERCROMBIE Governor, State of Hawaii





DEPARTMENT OF TRANSPORTATION THE STATE OF HAWAII **HARBORS DIVISION**

presents the

2011 TENANT ENVIRONMENTAL MANAGER OF THE YEAR

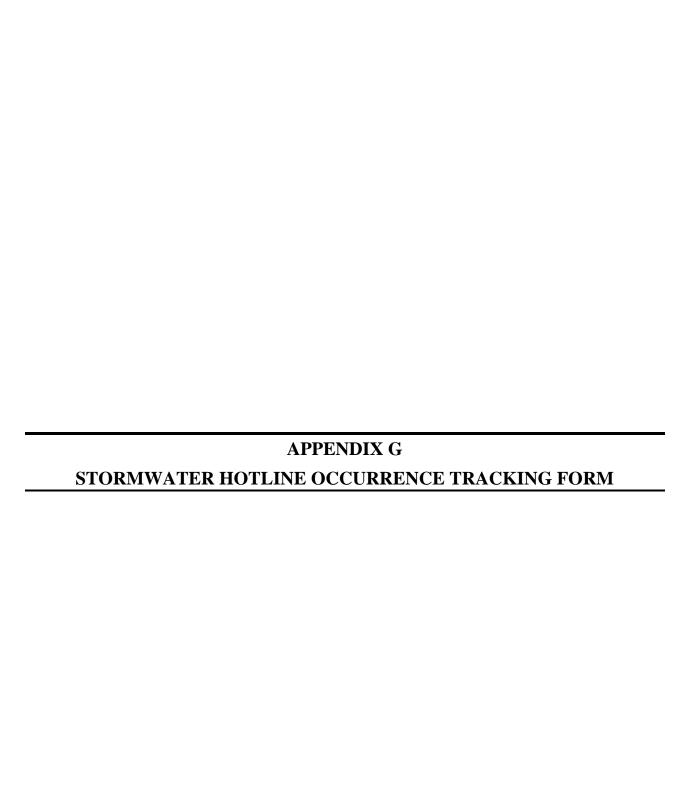
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NATHAN KAPULE

for

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

CATEGORY A

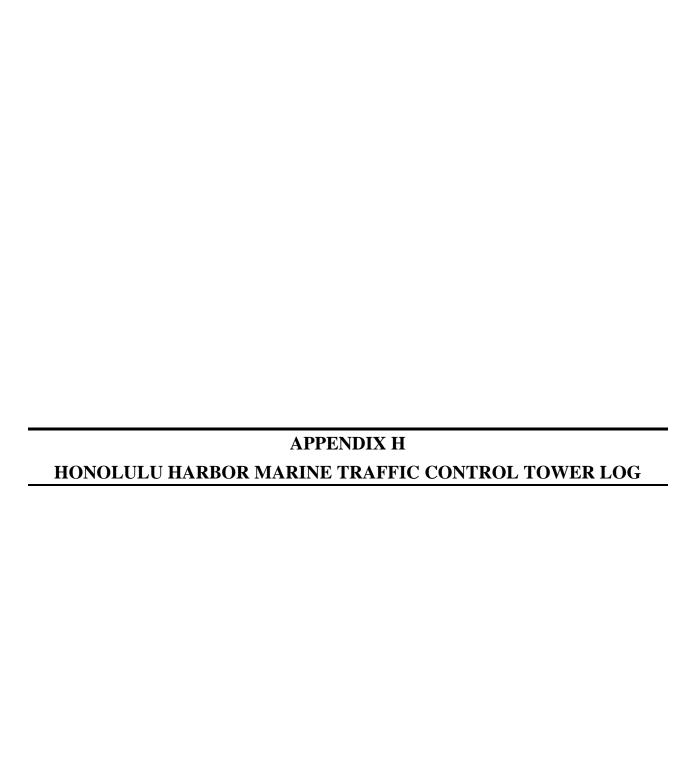




Stormwater Hotline Occurrence Tracking (SHOT) Form

LINE ITEM		FORM FIELD		
	Caller Information			
Caller Name				
Caller Company				
Telephone Number				
Email Address				
Date/Time Received				
	Occurrence Information			
☐ Information Request	☐ Discharge Reporting	☐ Complaint	☐ Commendation	
☐ Information Request				
Information Requested				
Actions Taken				
Additional Information				
	☐ Discharge	Reporting		
Address or Location of Discharge				
Time/Date of Discharge				
Substance/Amount Discharged (if known)				
	Media into which the discharge occurred: □ Air □ Water □ Natural Ground □ Concrete/Asphalt □ Stream □ Ocean Other:			
Responsible Party (if known)				
Cause of Discharge (if known)				
Clean-up Actions Taken (if applicable)				
Notifications Made/Actions Taken by Harbors Division				
Follow Information				

LINE ITEM	FOR	M FIELD	
☐ Complaint			
Nature of Complaint			
Complaint Details			
Notifications Made/Actions Taken by Harbors Division			
☐ Commendation			
Commendation Details			
Notifications Made/Actions Taken by Harbors Division			
	Points of Contact for Immediate	Response	
In the event of an emergency needing immediate response, call the numbers listed below:			
Point of Contact		Telephone Number	
Marine Traffic Control Center		808-587-2076	
Marine Cargo Specialist		808-587-2053	
City and County of Honolulu Environmental Concern Hotline		808-768-3300	
Department of Health, Clean Water Branch		808-586-4309	
Coast Guard		1-800-424-8802	





Hawaii Department of Transportation – Harbors Division Annual Compliance Report Summary of Tower Logs Honolulu Harbor, 2011

Date	Time	Action Taken
1/8/2011	1540	CAPT OF STAR OF HNL REPT PAINT DRAFT FLOATING IN WATER NEAR PIER 8, MAYBE CAME OUT FROM PIER 9 SE, A1 NTFD TO CK IT OUT
1/8/2011	1542	A1 10-7
1/8/2011	1547	A1 10-8 PER CAPT OF STAR OF HNL IT WENT UNDER PIER 8, INFORMED CAPT TO CALL TOWER AGAIN WHEN HE SEE IT AGAIN
1/9/2011	705	ATM SEC JERRY RPTS DEBRIES AT P8 BEHIND THE STAR OF HNL - A1 NFYD
1/9/2011	714	A1 ALL UNITS 10-7 P8
1/9/2011	717	A1 RPTS PAINT FLOAT FROM SE HAS BROKEN FREE AND IS BEHIND THE STAR OF HNL TWR CALLED JEFF OF SE AND HE SAID THAT HE WILL BE IN TO RETRIEVE THAT PAINT FLOAT (ETA @ 45 MINS)
1/9/2011	837	ATM TWR SEC RPTS DEAD BIRD ON THE THIRD FLOOR, THE DOOR IS UNLOCKED & WINDOWS ARE OPEN - ATM SEC JERRY NFYD OF LAST AND WILL CALL TWR SEC FOR DETAILS
1/9/2011	846	JEFF OF SE RPTS 8-10' LOOSE SECTION OF BOOM FLOATING BY P2 DOES NOT BELONG TO THEM BUT HE WILL RETRIEVE IT AND TIE IT UP AT P2 - A1 WILL ESCORT TO P2 AREA
1/9/2011	1008	JEFF OF SE RPTS 8' BOOM PIECE OUT OF THE WATER AT P4 - WILL P/U TOMORROW
1/10/2011	1600	CAPT OF STAR OF HNL REPT PAINT RAFT FLOATING INFRONT OF PIER 8, A1 NTFD
1/10/2011	1622	A1 10-8 USCG PICKED UP THE PAINT RAFT NOT SURE WHAT THEY WANT TO DO WITH IT
1/11/2011	1039	CAPT OF THE GOLDEN PRINCESS RPTS SHEEN ABOUT 10 METERS OFF HIS PORT BOW SAID THAT IT IS NOT COMING FROM HIS SHIP - A1 NFYD
1/11/2011	1056	A1 ABOARD THE GLDN PRINCESS SAID THAT SHEEN HAS DISSIPATED
1/13/2011	1220	RALPH (P&R) REPT A GAS SMELL AT P-36 / A3 NTFD & THINKS ITS COMING FROM THE FUELING OF THE BARGE AT P-30
1/13/2011	1227	A3 10-8 P-36, HE NTFD RALPH
1/13/2011	1234	PER A3 THEY WILL BE FUELING TILL ABOUT 1500, SO TWR MAY GET MORE CALLS ABOUT THE SMELL
1/19/2011	915	FAYE FRM HAWAII PIOTS ADVZD V/-PACIFIC STAR WASHING THIER BOAT, WHICH RESULTING IN SOAPY WATER RUN-OFFA2 NTFD
1/20/2011	1230	OCG (GREG) REPTS HIS CREW SEES SOMEONE TAKING APART AN ENGINE AND SPILLING OIL ON THE GROUND AT P-36. A3 NTFD. A2 ENROUTE.
1/20/2011	1237	OC9 NTFD.
1/20/2011	1240	A3 & A4 10-7 IN THE AREA CKING P-36
1/20/2011	1244	A2 10-7 P-36
1/20/2011	1308	ALL UNITS 10-8, PER A3 BOTH PARTIES ID CHECKED.
1/21/2011	919	U4 ASKED TOWER TO CONTACT TROY BROWN TO LET HIM KNOW THAT PAX SHIP AT P-10 IS CLEANING THE SHIP WITH SOME SORT OF SOAP AND ITS GOING INTO THE WATER.
1/21/2011	923	TOWER LEFT MESSAGE ON TROY BROWN'S CELL PHONE.
1/21/2011	952	LT 10-7 MEETING P-19 WITH SECRET SERVICE
1/21/2011	1045	TROY BROWN CALLS TOWER BACK AND ASK'S IF ANYONE CALLED HIM. TOWER EXPLAINED THAT A MESSAGE WAS LEFT ON HIS PHONE AND I AGAIN, REPEATED THE 0919 ENTRY. TROY ASKED IF TOWER SAW THEM DO THIS. I TOLD TROY NO, THAT ALL I WAS DOING IS REPEATING WHAT WAS SHARED BY U4.
2/11/2011	1015	PER U9; HAR-O ASKED TO REPORT SHEEN IN WATER AT P-10. DOH, CG, HAR-E NTFD.



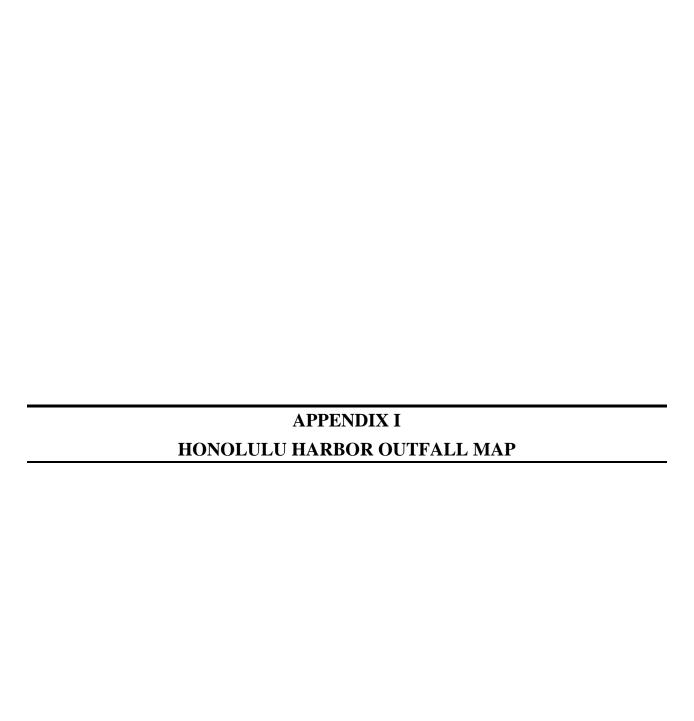
Hawaii Department of Transportation – Harbors Division Annual Compliance Report Summary of Tower Logs Honolulu Harbor, 2011

Date	Time	Action Taken
2/25/2011	931	UH SNUGG HARBOR REPT'S DIESEL SHEEN IN WATER, DOES NOT KNOW SOURCE AND ABOUT 100 FEET LONG PER ROSS BARNES 294-6915. CG, DOH, U3, HAR-E (R. LEONG) ALL NTFD.
3/1/2011	1108	USCG REPT OIL SPILL AT PIER 37-38 ON THE GROUND, A3 NTFD TO CK IT OUT
3/1/2011	1113	A3 10-7
3/1/2011	1119	PER A3 ONLY OIL SPILL FOUND ON THE GROUND AT PIER 36 NEAR ALL THE CONTAINERS ARE, MAINT NTFD FOR CLEAN UP
3/22/2011	1851	K3 @ P38 AND ADVZD THAT HE DISCOVERED OIL COMING OUT FROM ONE OF THE DUMPTERS IN THE AREA. HE RQST THAT ON-CALL OM BE ADVZD TO ASST WITH CLEAN UP, AS OIL IS HEADING TOWARDS DRAIN, WHICH LEADS INTO THE HARBOR K3 ADVZD THAT HE IS LAYING DOWN CARPET STRIPS TO SOAK-UP WHAT OIL HE CAN.
3/22/2011	1857	TWR CONTACTED OM1-ELMER TO RQST ASSTOM1 ADVZD THAT THIS IS HANDLED BY OMG STAFF AND TO ADVZD ON-DUTY HARBOR MSTR.
3/22/2011	1859	NTFD U1 OF SITUATIONTWR CTC K3 TO GET AN ESTIMATE OF JUST HOW MUCH OIL WAS LEAKING. K3 ADVZD HE ESTIMATES ABOUT 2 QUARTS AND HE HAS THE SITUATION CONTAINED SO THAT THE AREA CAN BE CLEANED UP TMRW. INFO PASSED TO U1
4/3/2011	1041	USCG P O AT P36 RPTNG HAZ MAT MATERIAL NOT STORED PROPERLY RQST HP TO P36 A1 NFYD ENROUTE A1 RPTS TWR PHONE NOT RINGING - WANTED TO RPT THAT USCG PEOPLE WERE JUST PATROLING THE AREA AND NOTICED UNSEALED CANS - A3 RPTS THAT U9 WAS NTFYD EARILER OF THIS PALLET OF DISCARDED ITEMS - HE SAID HE THINKS A TARP WAS RQSTD - 10-8
4/7/2011	811	DOH LIZ GALVEZ NFYD OF DISCOLORED RUNOFF WATER IN THE HARBOR
4/16/2011	617	PILOT #14 RPRT A LIGHT OIL SHEEN IN THE AREA OF P18UNK SOURCE
4/16/2011	622	A1 NTFD OF OIL SHEENWILL CHECK IT OUT AND ADVZD TWR
4/16/2011	630	A1 ADVZD OF LIGHT OIL SHEEN BETWEEN P17 & 18 AND IT APPEARS TO BE THE RESULT OF RUN-OFF FROM THE RIVER, DUE TO EARLY MORNING RAIN
5/8/2011	856	FSO-FUJIHARA ADVZD TWR THAT THE FORKLIFT USED TO MOVE THE CONCRETE JERSEY BARRIER @ P10 BROKE A HYDRUALIC HOSEMINIMAL FLUID ON THE GROUND
5/15/2011	1515	(ATHL) KEITH REPORTS STRONG ODOR @ P40A3 NTFYD A1 - ENROUTE
6/2/2011	1447	DARREN OF USCG RTPS SHEEN AT P21 AREA - INVESTIGATOR IS ENROUTE TO P21 CONFIRMED NOTIFICATION : DOH HEERS - CIVIL DEF - NOAA - DLNR - PWLF - HE WAS NOTIFIED BY NATIONAL RESPONSE CENTER - R. LEONG NFYD TOO
6/17/2011	1328	TWR OBSERVED THE CREW ON THE VESL "TAMSEN" @ P9 USING SOAP TO WASH THE DECK, AND IT IS RUNNING INTO THE HARBOR. U6 NTFD.
6/17/2011	1330	U6 NTFD THE TAMSEN THAT THEY CANNOT USE SOAP. AS U6 WAS DRIVING AWAY, TWR NOTICED THAT THE CREW CONTINUED TO WASH THE SOAP INTO THE WATER. U6 NTFD, AND STATED THAT HE NTFD THEM.
7/23/2011	1047	USC GUARD REPT OIL SPILL AT PIER 1 FROM BARGE WAIALEALE PENCO I CLEANING IT UP NOW, PER USCG ALREADY NTFD EVERYONE, U1 NTFD
8/1/2011	1638	USCG P O DARREN RPTS SMALL DIESEL SPILL AT P30 OFF OF TUG TORTEL - R. LEONG NFYD (LESS THAN 1/2 GALLON)



Hawaii Department of Transportation – Harbors Division Annual Compliance Report Summary of Tower Logs Honolulu Harbor, 2011

Date	Time	Action Taken
9/12/2011	1803	USCG P.O. CHARLES RPTS MVC AT P51 CRANE VS VAN (OWNED BY DAVE OF PACIFIC DIVING CO). THE VAN HAS SUBSTANTIAL DAMAGE AND IS HANGING OVER THE EDGE OF THE APRON. AN UNDETERMINED AMOUNT OF BRAKE FLUID HAS ENTERED THE HARBOR - A3 NFYD
9/12/2011	1935	A3 ALL UNITS 10-8 P51 - PENCO & USCG ON SCENE - PIER HAS BEEN BOOMED. DOH, U1 AND R LEONG NFYD (NOT SURE IF BRAKE FLUID IS TO BE REPORTED SO I DID)
10/6/2011	1605	PILOT # 9 REPT VESSEL ODYSSEY IN DUMPING SOAP IN THE WATER AT P -10/11 / U3.
10/6/2011	1610	USCG (TURNER), KILO 3 , RANDAL & PH (LIZ) ALL NTFD
10/6/2011	1625	PER U3 THE ODYSSEY IS PUMPING OUT SEAWATER THAT WAS CIRCULATED THRU THE VESSEL, THAT IS CAUSING THE FOAMING IN THE WATER. USCG (TURNER), PH & RANDAL ALL NTFD. KILO 3 IN THE AREA.
10/6/2011	1630	KILO 3 REPT, HE IS ON THE VESSEL & THE WATER IS BEING PUMPED OUT REALLY STRONG & CAUSING THE FOAMING IN THE WATER.
10/7/2011	912	HFD NTFD TWR THAT THEY RCVD A CALL FROM A PERSON THAT LIVES IN A HIGH RISE ACROSS FROM P11 (SCOTT @ 945-807-4104). HE RPTD THE BILGE ON THE ODYSSEY PUMPING OIL WHICH IS CAUSING AN OIL SHEEN. HFD ALSO NTFD USCG / DOH. U3 NTFD. TWR RQSTD A1 HEAD THERE TO CHECK IT OUT. K1 ALSO RESPONDING.
10/7/2011	920	A1/HFD 10-8 FROM P11. NO SIGNS OF AN OIL SHEEN. THE SHIP'S ENGINEER STATED THAT IT WAS COOLANT WATER. U3 NTFD.
10/20/2011	830	FV CAROLEIGH REPT AN OIL SHEEN BETWEEN P-35 & 36, ABOUT 200' LONG & 100' WIDE UNKNOWN SOURCE / USCG, U3, U9, TERRY (PH) ALL NTFD & LEFT MESSAGE WITH RANDAL
10/26/2011	856	DEPT. OF HEALTH RCVD NOTIFICATION FROM USCG OF AN OIL SHEEN APPROXIMATELY 50 YDS IN DIAMETER IN THE MAIN BASIN OF HNL HARBOR. TWR NTFD DoH THAT THERE ARE NO SIGNS OF A SHEEN IN THE MAIN BASIN. DoH ACKNOWLEDGED.
10/31/2011	645	TWR OBSERVED SHEEN WEST OF THE TWR - LOOKS LIKE RAIN RUN-OFF COMING FROM P13 - WILL NFY DOH @ 8:00
10/31/2011	817	A1 RQST MAINT BE NFYD TO BRING OIL ABSORBENT PADS (HYDROLIC LEAK) OM1 NFYD
10/31/2011	1248	K-O-K RQST SML BT INTO THE WATER TO BOOM THEIR SHIP - OK DONE 1344
11/16/2011	814	P14 RPTS OIL SHEEN CORNER OF P28. NTFD DOH-TERRY, USCG SEALE, RANDAL LEONG AND U3.
11/29/2011	924	U1 REQ U6 CONTACT AGENT FOR GOLDEN PRINCESS AT P-10/11. THEY ARE PAINTING & PAINT IS FALLING IN THE WATER. U6 NTFD & WILL CALL STEVE LAMBERT (TNC)
11/29/2011	926	U6 REPT HE CONTACTED STEVE & HE WILL TAKE CARE OF 0924 ENTRY.
12/12/2011	1020	JON (OM) RPTS THAT THE HAZ MAT TEAM HAS BEEN NFYD TO RESPOND TO AN EXPANDING 55 GAL DRUM AT P36 DISPOSAL AREA-U2, U9, A3, & EE-LEONG NFYD
12/12/2011	1028	A3 AND A1 10-7 P36 (HFD 10-7)
12/12/2011	1032	A3 RPTS HFD ORDERED THE EVACUATION OF P36 UNTIL HAZ MAT CAN DETERMINE CONTENTS - U2, U9, EE-LEONG NFYD
12/12/2011	1038	LT1 & K2 10-7 P36
12/12/2011	1050	K2 RPTS HFD HAS CLEARED DRUM MATERIAL FOR DISPOSAL - OM JON NFYD





APPENDIX J HONOLULU HARBOR OUTFALL RECONNAISSANCE INVENTORY REPORTS

Section 1: Back	kgrour	nd Data						
ubwatershed:					Outfall ID: 70	9-07		
oday's date:	12/1	12/11			Time (Military):	1315		
Investigators:	'ماند	, Al-			Form completed b	1y: 15 W		
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde: 23588	37.854	Longi	itude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s: Z	512, 3573		
Land Use in Drain	nage Are	ea (Check all that apply):			,		
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	idential				Other:			
Commercial					Known Industries	:		
-	n of outf	fall, if known): large cr	abs, Mir	nnows, vegetation along ca	anal is sparse, trash or	side of canal, paper	and plastic.	
				<u>-</u>				
Section 2: Outf		escription MATERIAL		SH	APE ,	DIMENSIO	ONS (TN.)	SUBMERGED
LOCKITOI	•	RCP C		Circular	Single	Diameter/Dimen		In Water:
			HDPE	☐ Eliptical	Double	24"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	☐ No ☐ Partially
			IDFE			-		Fully
Closed Pipe		☐ Steel		Box	Triple			With Sediment:
		Other:	-	☐ Other:	☐ Other:			☐ No ☐ Partially ☐ Fully
		Concrete		☐ Trapezoid		Depth:		
		☐ Earthen						
Open drainage	е	☐ rip-rap		Parabolic		Top Width:		
		Other:		Other:		Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)				<i>XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</i>
Flow Present?		Yes	☐ No		p to Section 5			_
Flow Description (If present)	_	☐ Trickle 🗹	Moderate	e Substantial				
Section 3: Qua	ntitati	ive Characterizat	ion					
				FIELD DATA FOR FI	LOWING OUTFALL	.S		
P	ARAME	ETER		RESULT		UNIT	E	QUIPMENT
		Volume				Liter		
□flow#1		Time to fill	10	it in 10 sec		Sec		
		Flow depth	,	1/411		In		
□Flow #2		Flow width	0,3	"		Ft, In		
LIFIOW #2	ı	Measured length	<u>0</u> , ,	"		Ft, In		
l		Time of travel				Sec		
	Tempera	ature	59	me is other	,	٥ļ٦		
	pН					pH Units	Te	est strip/Probe
	Ammo	nia				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? Yes Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes No Section 6: Overall Outfall/Characterization Are physical indicators that are not related to flow present? Notes: Potential tidal influence due to low tide ☐ Unlikely Floatables
-Does Not Include Abnormal Vegetation Pipe benthic growth INDICATOR Poor pool quality Outfall Damage Deposits/Stains INDICATOR Turbidity Trash!! Color Odor possibly (ce make Potential (presence of two or more indicators) CHECK if Present **CHECK if Present** Ţ Clear ☐ Green Sulfide ☐ Sewage Petroleum (oil sheen) Sewage (Toilet Paper, etc.) □ Odors ☐ Oily ☐ Flow Line ☐ Paint **D**Krown Orange Brown Other: ☐ Rancid/sour ☐ Petroleum/gas Spalling, Cracking or Chipping Corrosion DESCRIPTION ☐ Inhibited ☐ Orange ☐ Colors ☐ Floatables ☐ Excessive Algae See severity Suds ☐ Gray Other: (If No, Skip to Section 5) DESCRIPTION Suspect (one or more indicators with a severity of 3) ☐ Green ☐ Yellow Other: (If No, Skip to Section 6) Other: ☐ Oil Sheen ☐ Other: Peeling Paint Other: ☐ 1 – Few/slight; origin not obvious ☐ 1 – Slight cloudiness ☐ 1 – Faint colors in sample bottle 1 - Faint sediment and algae **RELATIVE SEVERITY INDEX (1-3)** 2 - Some; indications of origin (e.g., possible suds or oil sheen) \square 2 – Clearly visible in sample bottle 2 - Cloudy 2 - Easily detected ☐ Obvious COMMENTS 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating 3 - Clearly visible in outfall flow ☐ 3 -- Opaque ☐ 3 – Noticeable from a sanitary materials) distance

Section 1: Back	kgrou	nd Data							
'ubwatershed:					Outfall	1D: P9.	-04		
oday's date:	12/	12/4 , AR			Time (N		120		
Investigators:	プリ	, A-K			Form co	ompleted by:	_		
Temperature (°F)	:		Rainf	fall (in.): Last 24 hours:	0 Last 48 l	hours: 0			
Latitutde: 23588	337.854	Lo	ngitude:		GP\$ Un	nit:		GPS LMK #	:
Camera: Nikon-					Photo #	s: "K	3515		
Land Use in Drain	nage Are	ea (Check all that ap	ply):						
☐ Industrial					Ope	n Space			
Ultra-Urban R	Residenti	al ·			☐ Insti	tutional			
Suburban Res	idential				Other: _				
☐ Commercial					Known	Industries: _			
Notes (e.g, origi Section 2: Out			crabs, Mi	nnows, vegetation along o	anal is spars	e, trash on si	de of canal, paper	and plastic.	
LOCATION		MATERI	AL	SH	APE ,		DIMENSIO	ONS (IN.)	SUBMERGED
		Z RCP	СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double		24"		☐ No ☐ Partially
Closed Pipe		☐ Steel		Вох	☐ Triple				☐ Fully
1		☐ Other:		☐ Other:	Other:				With Sediment: No Partially Fully
_		☐ Concrete							
		☐ Earthen		Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:		
		☐ Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		Yes	□ No	If No, Ski	ip to Section	5			
Flow Description (If present)		☐ Trickle	Moderat	e Substantial					_
Section 3: Qua	ntitati	ve Characteriz	ation						
				FIELD DATA FOR F	LOWING (OUTFALLS			
P.	ARAME	TER		RESULT		υ	INIT	EC	QUIPMENT
□Flow#1		Volume		,		1	Liter		
		Time to fill		nt/10 sec			Sec		
		Flow depth	1/4				In		
☐Flow #2		Flow width	0, A				t, In		
		Measured length	0'	"			t, In		
'		Time of travel					Sec		
	Tempera			_			°F		
	pН						Units		st strip/Probe
	Ammo	nia				1	nom		Test strin

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	adicators for Flowing tors Present in the flow?	Outfalls Only Yes \(\square\) No \(\left(\text{If No, Skip to Section 5} \right) \)		
INDICATOR	CHECK if Present	DESCR	RELATIVE SEVERITY INDEX (1-3))
Odor	0 0	□ Sewage □ Rancid/sour □ Petroleum/gas □ Sylfide □ Other:	☐ I – Faint ☐ 2 – Easily detected ☐ 3	☐ 3 — Noticeable from a distance
Color		☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 — Faint colors in ☐ 2 — Clearly visible in ☐ 3 sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2 Cloudy ☐ 3	☐ 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)
Notes: Potential tidal influence due to low tide	ence due to low tide			
Section 5: Physical Indicators for Both Flowing and Non- Are physical indicators that are not related to flow present?	idicators for Both Fl s that are not related t	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)	sction 6)	
INDICATOR	CHECK if Present	nt DESCRIPTION	COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	iint	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen ☐ Syds ☐ Excessive Algae ☐ Other:	een	
Pipe benthic growth	Z	☐Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characterizati	n		
□ Unlikely □	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	

Section 1: Back	groui	nd Data							1
ubwatershed:					Outfall 1D): P11-	04		
roday's date:	w	12/4			Time (Mi	litary):			
Investigators:	ί	<i>[</i> .			Form con	pleted by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours	s: 0 Last 48 ho	urs: 0			
Latitutde: 23588	37.854	Long	itude:		GPS Unit	:		GPS LMK #	:
Camera: Nikon-					Photo #s:	35	37 -53		
Land Use in Drain	age Are	ea (Check all that appl	y):			. • • •			
☐ Industrial					Open :	Space			
Ultra-Urban Re	esidenti	al			Institu	tional			
Suburban Resi	dential				Other:				
□ Commercial					Known In	dustries:			
			rabs, Mii	nnows, vegetation along	g canal is sparse,	trash on si	de of canal, paper	and plastic.	
Section 2: Outf LOCATION		MATERIAL	•	/ S	HAPE /		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single		Diameter/Dimen	sions:	In Water:
/		PVC D	HDPE	☐ Eliptical	☐ Double		6"		☐ No ☐ Partially
Closed Pipe		□ Steel		Вох	☐ Triple		12"-10	ickle	☐ Fully
_ •		Other:		☐ Other:	Other:			•	With Sediment:
			_						Partially Fully
		Concrete		☐ Trapezoid			Depth:		
		☐ Earthen							
Open drainage	:	□ rip-rap		☐ Parabolic			Top Width:		
		☐ Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)					
Flow Present?		Yes	□ No	If No, S	Skip to Section 5				
Flow Description (If present)		Trickle 🔲	Moderate	e 🔲 Substantial					
Section 3: Qua	ntitati	ive Characterizat	ion						
			_	FIELD DATA FOR	FLOWING O	UTFALLS			
P/	ARAMI	ETER		RESULT		U	INIT	EC	QUIPMENT
□Flow#1		Volume				j	Liter		
		Time to fill	1 8	18p/ 35ec	-		Sec		
		Flow depth		. ,			In		
□Flow #2		Flow width	_ ₩	,, 		I	Ft, In		
	1	Measured length	Ō,	»		I	Ft, In		
		Time of travel	<u> </u>				Sec		
1	Cempera						°F		
	pН		1			pН	I Units	Tes	st strip/Probe
	Ammo	nia				1	ppm		Test strip

Are Any Physical Indicators Present in the flow?	Section 4: Physical Indicators for Flowing Outlans Only Are Any Physical Indicators Present in the flow?	Yes \(\sqrt{No}\) \(\left(\frac{1}{2}\text{No}\) \(\left(\frac{1}2\text{No}\) \	
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)
Odor	☐ Sewage	wage □ Rancid/sour □ Petroleum/gas lfide □ Other:	☐ 1 — Faint ☐ 2 — Easily detected ☐ 3 — Noticeable from a distance
Color	☐ Clear	zar □ Brown □ Gray □ Yellow zen □ Orange □ Red □ Other:	☐ 1 Faint colors in
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 – Opaque
Floatables -Does Not Include Trash!!	□ Sev	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	□ 1 – Few/slight; origin not obvious □ 1 – Few/slight; origin of origin (e.g., obvious oil possible suds or oil sheen, suds, or floatin sheen)
Notes: Potential tidal influence due to low tide	ence due to low tide		
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	sction 6)
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int
Deposits/Stains		Oily	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ten
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Sectjón 6: Overall Ou	Section 6: Overall Outfall Characterization		
Unlikely 🖸	Potential (presence of two or more indicators)	two or more indicators) Suspect (one or more indicator	indicators with a severity of 3)

Section 1: Back	grour	id Data							
ubwatershed:					Outfall ID:	Rena	me to P11-	-06	
₄oday's date:	12	1/2/11			Time (Milit	ary):			
Investigators:					Form compl	leted by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hour	s: 0		•	
Latitutde: 23588	37.854	Loi	ngitude:		GPS Unit:			GPS LMK #:	:
Camera: Nikon-					Photo #s:		5538		
Land Use in Drain	age Are	ea (Check all that app	ply):						
☐ Industrial					Open Sp	ace			
Ultra-Urban Re	esidenti	al			Institutio	onal			
☐ Suburban Resi	dential				Other:				
Commercial					Known Indu	ustries: _			
			crabs, Mir	nnows, vegetation along ca	anal is sparse, tr	ash on sid	de of canal, paper	and plastic.	
Section 2: Outf LOCATION		escription MATERIA		SHA	APE /		DIMENSIO	ONS (IN.)	SUBMERGED
		□ RCP □	СМР	Circular	Single		Diameter/Dimen	sions:	In Water
		□ PVC □] HDPE	☐ Eliptical	Double		3 "		☐ No ☐ Partially
Closed Pipe		Steel		Вох	☐ Triple		_		☐ Fully
		☐ Other:		☐ Other:	Other:				With Sediment:
									Partially Fully
		☐ Concrete		☐ Trapezoid			Danth		
		☐ Earthen					Depth:		
Open drainage	•	☐ rip-rap		☐ Parabolic			Top Width:		
		☐ Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		☑ Yes	□ No	_	o to Section 5				
Flow Description (If present)		/] Moderate	e Substantial					
Section 3: Qua	ntitati	ive Characteriza	ation						
				FIELD DATA FOR FL	LOWING OUT	FALLS			
P/	ARAMI	ETER		RESULT		U	INIT	EC	QUIPMENT
□Flow#1		Volume				I	Liter		
	_	Time to fill	<u>t</u>	drip 24el			Sec		
ı		Flow depth	\perp				In		
□Flow #2		Flow width		"			Ft, In		
	- 1	Measured length	0,	"			Ft, In		
		Time of travel					Sec		
<u>"</u>	Tempera						°F		
	pН					pH	I Units	Tes	st strip/Probe
	Ammo	nia				I	ppm		Test strip

INDICATOR	INDICATOR CHECK if Present	DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	□ Sewage	age ☐ Rancid/sour ☐ Petroleum/gas	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 — Noticeable from a
Color	☐ ☐ Clear	ır □ Brown □ Gray □ Yellow en □ 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!!	□ Sew	☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	ection 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	\$5
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		Oily Flow Line Paint Other:	sediment and algae	nd algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality	, -	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth	Ī	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characterization				
Unlikely	Potential (presence of two or more indicators)	wo or more indicators) Suspect (one or more indicato	indicators with a severity of 3)	f3) 🗌 Obvious	

Section 1: Back	groun	ıd Data				_				_
'ubwatershed:					Outfall ID:	7	Rena	me to P11	-08	
oday's date: \	2/1-	2/11			Time (Mili	itar	y): [53L		
Investigators:		-1			Form comp	plet	ed by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hou	ırs:	0			
Latitutde: 23588	37.854	Lon	gitude:		GPS Unit:				GPS LMK #	:
Camera: Nikon-					Photo #s:	_	356	41		
Land Use in Drain	age Are	ea (Check all that app	y):							
Industrial					Open S	pac	ce			
Ultra-Urban R	esidenti	al			☐ Instituti	ion	al			
☐ Suburban Resi	dential				Other:					
Commercial					Known Ind	dus	tries:			
Notes (e.g, origin	of outf	fall, if known): large of	rabs, Mi	nnows, vegetation along ca	anal is sparse, t	tras	sh on sic	le of canal, paper	and plastic.	
	ned	1 Stirt	100							
				_						
Section 2: Outf			1	- CU	APE /			DIMENSIO	NC (TN)	SUBMERGED
LOCATION	•	MATERIA RCP	CMP	Circular	Single			Diameter/Dimen		In Water
								811	sions.	☐ No
			HDPE	☐ Eliptical	☐ Double					☐ Partially ☐ Fully
Closed Pipe		Steel		Вох	Triple					With Sediment:
		☐ Other:	_	Other:	Other:		-			☑ No ☐ Partially
										Fully
		☐ Concrete		☐ Trapezoid				Depth:		
		☐ Earthen						-		
Open drainage	•	☐ rip-rap		☐ Parabolic				Top Width:		
		☐ Other:		Other:				Bottom Width: _		
☐ In-Stream		(applicable when c	ollecting	samples)						
Flow Present?		☑ Yes	☐ No	If No, Ski	p to Section 5					
Flow Description (If present)		Trickle 🗆	Moderat	e						
Section 3: Qua	ntitati	ive Characteriza	tion							
				FIELD DATA FOR FI	LOWING OU	JTF				
P/	ARAMI	ETER		RESULT				NIT	E	QUIPMENT
☐Flow #1		Volume	1,05					iter		
		Time to fill	1/20	pt/min				Sec		
		Flow depth	0,	"				In		
□Flow #2	۰,	Flow width	<u> </u>	"				t, In		
		Measured length Time of travel	1 0					Sec		
	 Tempera							°F		
	рН		+					Units	Te	est strip/Probe
	Ammo							nom		Test strin

Are Any Physical Indicators Present in the flow? Yes	rs Present in the flow	v? Yes No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage☐ Rancid/sour☐ Petroleum/gas☐ J Faint☐ Other:	☐ 2 — Easily detected ☐ 3 — Noticeable from a distance
Color		In Clear □ Brown □ Gray □ Yellow □ 1 - Faint colors □ Green □ Orange □ Red □ Other: sample bottle	raint colors in ☐ 2 - Clearly visible in ☐ 3 - Clearly visible in sample bottle ☐ 3 - Clearly visible in outfall flow
Turbidity		See severity ☐ 1 – Slight cloudiness	t cloudiness 2 – Cloudy 2 – Opaque
Floatables -Does Not Include Trash!!		□ Sewage (Toilet Paper, etc.) □ Suds □ 1 – Few/sl □ Petroleum (oil sheen) □ Other: not obvious	□ 2 – Some; indications □ 3 - Some; origin clear Ge.g., obvious oil Sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ice due to low tide	W. W. JOHN	
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	licators for Both that are not related	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	sent DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth		. ☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	ਮਿੰਡੀl Characteriza	tion	
Unlikely	Potential (present	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	th a severity of 3) Dovious

Section 1: Back	groui	nd Data					t- D44	00	
ubwatershed:					Outfall ID	Rena	ame to P11-	09	
oday's date:	12/	12/11			Time (Mi	litary): j	(40		
Investigators:		1			Form com	pleted by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 ho	urs: 0		·	
Latitutde: 23588	37.854	Lon	gitude:		GPS Unit	:		GPS LMK #	:
Camera: Nikon-					Photo #s:	35	42		
Land Use in Drain	nage Are	ea (Check all that app	y):						
☐ Industrial					Open	Space			
Ultra-Urban R	esidenti	al			☐ Institu	tional			
Subarban Resi	idential				Other:				
Commercial					Known In	dustries: _			
Notes (e.g, origin	n of out	fall, if known): large o	rabs, Miı	nnows, vegetation along c	anal is sparse,	trash on si	ide of canal, paper a	and plastic.	
1	25-	-106							
, ,		(00						•	
Section 2: Out	fall De	scription							7
LOCATIO	Y	MATERIA	-		APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	CMP	Circular	☆ Single		Diameter/Dimen:	sions:	In Water: ☐ No
		/	HDPE	☐ Eliptical	☐ Double		811		☐ Partially ☐ Fully
Closed Pipe		Steel		Вох	☐ Triple				
		Other:	_	☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		Concrete		_					
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable when c	ollecting	samples)					
Flow Present?		☐ Yés	□ No		p to Section 5	;			
Flow Description		/							
(If present)		Trickle	Moderate	e Substantial					
Section 3: Qua	ntitati	ive Characteriza	tion						
				FIELD DATA FOR F	LOWING O	UTFALLS			
P	ARAMI	ETER		RESULT		ı	UNIT	E	QUIPMENT
□ El #1		Volume		,			Liter		
□Flow#1		Time to fill		527/566			Sec		_
		Flow depth					In		
☐Flow #2		Flow width	0,	,,			Ft, In		_
TIOW #Z	1	Measured length	Ō,	,,			Ft, In		_
		Time of travel					Sec		_
	Tempera	ature					°F		
	pН					pl	H Units	Te	est strip/Probe
	Ammo	nia					ppm		Test strip

INDICATOR	INDICATOR CHECK if Present	DESCRIPTION	REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor	☐ Sewage	age □ Rancid/sour □ Petroleum/gas ide □ Other:	☐ 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color	☐ Clear	r □ Brown □ Gray □ Yellow n □ 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!!	□ Sew	☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Independent of the Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	3
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	id algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth		☐Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tall Characterization				
Unlikely	Potential (presence of two or more indicators)	wo or more indicators) Suspect (one or more indicato	indicators with a severity of 3)	(3) Obvious	

Section 1: Dack	groui	iu Data								
bwatershed:						Outfall ID:	Rena	me to P11	-11	
oday's date:	12/	12/11				Time (Mili	tary):	3225	595	
Investigators:	,	(Form comp	oleted by:	4595	クレ	
Temperature (°F):			F	Rainfa	ll (in.): Last 24 hours: 0	Last 48 hou	ırs: 0	_		
Latitutde: 23588	37.854		Longitud	de:		GPS Unit:		-1	GPS LMK #	:
Camera: Nikon-						Photo #s:	35	48		
Land Use in Drain	nage Are	ea (Check all tha	t apply):							
☐ Industrial						Open S	pace			
Ultra-Urban R	esidenti	al				☐ Institut	ional			
Suburban Resi	idential					Other:				
Commercial						Known Inc	dustries: _			
Notes (e.g, origin	n of out	fall, if known): la	arge crabs	s, Min	nows, vegetation along ca	anal is sparse,	trash on si	de of canal, paper	and plastic.	
		109	1							
Section 2: Outf	fall De	scription								
LOCATION		MATE	RIAL		SHA	APE .		DIMENSIO	ONS (IN.)	SUBMERGED
		☑ RCP	□см	P	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	☐ HD	PE	☐ Eliptical	☐ Double		3		□ No □ Partially
Closed Pipe		□-Steel			☐ Box	Triple				☐ Fully
,		Other:			☐ Other:	Other:	_			With Sediment: ☐ No
I										☐ Partially ☐ Fully
		☐ Concrete			_					
		☐ Earthen			☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap			Parabolic			Top Width:	_	
		Other:			☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable w	hen collec	cting s	samples)					
Flow Present?		Yes] No		o to Section 5			-	
Flow Description (If present)		☐ Trickle	Mo	derate	: Substantial					
Section 3: Qua	ntitati	ive Characte	rizatio	n		•				
					FIELD DATA FOR FI	OWING OU	ITFALLS			
P	ARAMI	ETER			RESULT		ŧ	JNIT	E	QUIPMENT
□Flow #1		Volume						Liter		
		Time to fill		D.	5 gt Join			Sec		
		Flow depth						In		
□Flow #2	<u> </u>	Flow width	<u>_</u>	<u>D'</u> "				Ft, In		
	1	Measured length		<u>0</u> ' "	,			Ft, In		
·	F	Time of travel						Sec		
	Tempera							°F	т.	act ctrin/Draha
	pH							-I Units	16	est strip/Probe
	Ammo	nia						ppm		Test strip

Are Any Physical Indicators Present in the flow? Are	rs Present in the flo	w? Yes \(\begin{array}{c}\) No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRJ	RELA	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage ☐ Rancid/sour ☐ Petroleum/gas☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color		Z 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 floatir sanitary materials)
Notes: Potential tidal influence due to low tide	ce due to low tide				
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	licators for Both	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	tion 6)		
INDICATOR	CHECK if Present	esent DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	t		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	l algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Syds ☐ Excessive Algae ☐ Other:	n		
Pipe benthic growth	E E	☐Brown ☐Orange ☐Green ☐Other:			
tión 6: Overall Ou	fall Characteriz]	
☐ Unlikely ☐	Potential (preser	Potential (presence of two or more indicators) Suspect (one or more indicators)	ndicators with a severity of 3)	3)	
Section 7: Any Non-Illi	icit Discharge C	Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?			
alc about	λ.				

Section 1: Back	kgrour	ia pata			_			_
ubwatershed:					Outfall ID:	Rename to P11	-15	
oday's date:	12/1	2/11			Time (Militar	y):		
Investigators:	クピ	1			Form complet	ted by:		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 hours:	0		
Latitutde: 235883	37.854	L	ongitude:		GPS Unit:		GPS LMK #	:
Camera: Nikon-					Photo #s:	3 <i>5</i> 33		
Land Use in Drain	age Are	ea (Check all that a	pply):					
Industrial					Open Space	ce		
Ultra-Urban Ro	esidenti	al			☐ Institution	al		
Suburban Resi	dential				Other:			
Commercial					Known Indus	tries:		
Notes (e.g, origin	of outi	fall, if known): larg	e crabs, Mir	nnows, vegetation along ca	ınal is sparse, tras	sh on side of canal, paper	and plastic.	
Section 2: Outf	all De	scription						
LOCATION	1	MATERI	AL	SHA	APE /	DIMENSIO	ONS (IN.)	SUBMERGED
		ÇrCP [СМР	Circular Circular	☑ Single	Diameter/Dimer	sions:	In Water:
		□ PVC [☐ HDPE	☐ Eliptical	Double	36"		Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
•		Other:		☐ Other:	Other:	_		With Sediment:
1								☐ Partially ☐ Fully
		☐ Concrete		Tunnaraid		Donth		
		☐ Earthen		☐ Trapezoid		Depth:		
□ Open drainage	9	☐ rip-rap		☐ Parabolic		Top Width:		
		☐ Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		(appliçable wher	1 collecting	samples)		L		
Flow Present?		□ Yes	☐ No	/ If No, Skip	to Section 5			
Flow Description (If present)		☐ Trickle [☐ Moderate	Substantial				
Section 3: Quar	ntitati	ive Characteria	zation					
				FIELD DATA FOR FL	OWING OUTF	ALLS		
P/	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		
		Time to fill	<u> </u>	3 gal/sec		Sec		
		Flow depth		V		In		
□Flow #2		Flow width		**		Ft, In		
		Measured length	<u>ō</u> , ,	**		Ft, In		
' <u></u>		Time of travel				Sec		
7	Tempera					°F		
	pН					pH Units	Te	est strip/Probe
	Ammo	nia				ppm		Test strip

Are Any Physical Indicat	Are Any Physical Indicators Present in the flow? Yes	Yes ! No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SI	RELATIVE SEVERITY INDEX (1-3)	3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint ☐ 2 — F	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color		⊟Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	☐ 1 – Faint colors in ☐ 2 – Clearl sample bottle sample bottle	y visible in	☐ 3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 — Slight cloudiness ☐ 2 — Cloudy	Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 — Few/slight; origin of not obvious po	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)
Notes: Potential tidal influence due to low tide		could be tide! : substitute from - soes	s not alternate		
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	dicators for Both Fl that are not related t	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)	ection 6)		
INDICATOR	CHECK if Present	ent DESCRIPTION		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae		
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ten .		
Pipe benthic growth	· 🗆	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ıtfall Characterizati	on			
Unlikely	Potential (presence	two or more indicators)	Suspect (one or more indicators with a severity of 3)	☐ Obvious	

Section 1: Back	kgrour	nd Data				D - 11 - 12 - 14 - D4	1.10	
"ubwatershed:					Outfall ID:	Rename to P1	1-16	
íoday's date:	12/1	12/4			Time (Military): 1553		
Investigators:	ζ				Form complete			
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: (Last 48 hours: 0)		
Latitutde: 23588	37.854	Long	itude:		GPS Unit:		GPS LMK #:	
Camera: Nikon-					Photo #s:	3555		
Land Use in Drain	nage Are	ea (Check all that apply	·):					
☐ Industrial					Open Space	e		
Ultra-Urban R	esidenti	al			☐ Institutiona	1		
Suburban Resi	idential				Other:			
Commercial						ries:		
	n of out	fall if known): large or	ahe Mir	nnows, vegetation along c				
140tes (e.g, origi	ii oi outi	ian, ii knowny. large ci	aos, wiii	mows, vegetation along c	anai io spaiso, trasi	on side of canal, paper	and plastic.	
						_		
Section 2: Out	fall De	escription			,			
LOCATION	N	MATERIAL		/ SH	APE /	DIMENSIO	ONS (IN.)	SUBMERGED
,		RCP □	СМР	□/Circular	Single	Diameter/Dimen	sions:	In Water.
		□ PVC □ I	IDPE	☐ Eliptical	☐ Double	1811		☑ No ☐ Partially
Closed Pipe		☐ Steel		☐ Box	☐ Triple			☐ Fully
- •		Other:		☐ Other:	☐ Other:			With Sediment:
			_					Partially Fully
		☐ Concrete						Li runy
				☐ Trapezoid		Depth:		
Open drainag	e	☐ Earthen		☐ Parabolic		Top Width:		
		☐ rip-rap		☐ Other:		Bottom Width: _		
		☐ Other:						
☐ In-Stream		(applicable when co	<u> </u>					
Flow Present?		☐ Yes	_ ₩o	If No, Ski	p to Section 5			
Flow Description (If present)	ı	☐ Trickle ☐ 1	Moderat	e				
Section 3: Qua	ntitati	ive Characterizat	ion					
				FIELD DATA FOR F	LOWING OUTF	ALLS		
P	ARAMI	ETER		RESULT		UNIT	EQ	UIPMENT
		Volume				Liter		
☐Flow #1		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u>0</u> '	"		Ft, In		
LIFIOW #2	1	Measured length	ō,	**		Ft, In		
		Time of travel				Sec		
, 	Tempera	ature				°F		
	pН					pH Units	Tes	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR CHECK if Present	CHECK if Present	DESCRIPTION	RELATIV	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor	□ Sewage	ge □ Rancid/sour □ Petroleum/gas e □ Other:	□ 1 – Faint □ 2	2 - Easily detected	☐ 3 — Noticeable from a distance
Color	☐ Clear	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in ☐ 2 sample bottle	☐ 2 Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2	2 - Cloudy	☐ 3 – Opaque
Floatables -Does Not include Trash!!	☐ Sewa;	☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide		-		
Section 5: Physical Indexers	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	5
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	æ	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth	Æ	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characterization				
∐ Unlikely □	Potential (presence of two or more indicators)	o or more indicators) Suspect (one or more indicato	indicators with a severity of 3)	☐ Obvious	

Section 1: Bacl	kgroui	nd Data						
Subwatershed:					Outfall ID:	9-0		
oday's date:					Time (Military):			
Investigators:					Form completed by	;		
Temperature (°F):	:		Rainfa	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		L	ongitude:		GPS Unit:		GPS LMK#	:
Camera: Nikon-					Photo #s:	160		
Land Use in Drain	nage Are	ea (Check all that a	pply):					
☐ Industrial					Open Space			
Ultra-Urban R	Residenti	al			Institutional			
☐ Suburban Res	idential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g, origi	n of out	fall, if known): larg	e crabs, Mir	nnows, vegetation along ca	anal is sparse, trash on	side of canal, paper	and plastic.	
Section 2: Out	fall De	scription	,					
LOCATIO	N	MATER	(AL	SHA	APE	DIMENSIO	NS (IN.)	SUBMERGED
		☑ RCP [СМР	☐ Circular	☐ Single	Diameter/Dimen	sions:	In Water:
		□ PVC [HDPE	☐ Eliptical	☐ Double	30"		Partially Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple			_ •
		Other:		☐ Other:	Other:			With Sediment: No □ Partially □ Fully
		Concrete				-		
		☐ Earthen		☐ Trapezoid		Depth:		
Open drainag	е	□ rip-rap		☐ Parabolic		Top Width:	_	
				☐ Other:		Bottom Width: _		
		Other:	/					
☐ In-Stream		(applicable when			1,			
Flow Present?		☐ Yes	⊿ No	If No, Skip	o to Section 5	<u>da1</u>		
Flow Description (If present)		☐ Trickle	Moderate	e Substantial				
Section 3: Qua	ntitati	ive Characteri	zation					
				FIELD DATA FOR FI	OWING OUTFALLS	3		
P.	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume				Liter .		
		Time to fill				Sec		
		Flow depth				In		
□Flow #2		Flow width	<u> </u>			Ft, In		
	I	Measured length	<u>0</u> ' '	"		Ft, In		
·		Time of travel				Sec		
	Tempera					°F		
	pН				p p	H Units	Te	st strip/Probe
	Ammo	nia				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flow	ing Outfalls Only へっくしい w? 口 Yes □ No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	7	□ Sewage □ Rancid/sour □ Petroleum/gas ☐ 子子┣叭 □ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color		□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ □ Other:	☐ I – Faint colors in ☐ 2 – Clearly visible in sample bottle ample 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 □ 3 - Some; origin clear of origin (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide		whole area was tilly may not	have had tron in that year
Section 5: Physical Indicators for Both Flowing and Non-Are physical indicators that are not related to flow present?	dicators for Both that are not relate	(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)	ction 6)
INDICATOR	CHECK if Present	esent DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping	nt
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	kfall Characteriza	ition /	
Unlikely 🗹	Potential (presen	two or more indicators)	Suspect (one or more indicators with a severity of 3) Obvious

Section 1: Back	groun	nd Data						
างbwatershed:					Outfall ID:	\$21	-06	
.oday's date:	١	2 15 11			Time (Militar	• -		
Investigators:		AR- 7	W		Form complet	ed by: A		
Temperature (°F):			Ra	infall (in.): Last 24 hours: 0	Last 48 hours:	0		
Latitutde: 2	356	894	Longitude	: 0617 <u>313</u>	GPS Unit:		GPS LMK #:	;
Camera: Nikon-					Photo #s:	1899		
Land Use in Drain	nage Are	a (Check all tha	it apply):					
Industrial					Open Space	ce		
Ultra-Urban R	esidenti	al			Institution	al		
Suburban Resi	dential				Other:			
☐ Commercial					Known Indus	tries:		
	n of outf	fall, if known): l	arge crabs,	Minnows, vegetation along ca				
(,, -				71 .	•	
		_						
Section 2: Out		1						"
LOCATION	4	MATE		SHA			SIONS (IN.)	SUBMERGED
		Ì ⊅ RCP	☐ CMP	Circular	Single	Diameter/Dir		In Water: No
		☐ PVC	☐ HDPF	Eliptical	☐ Double	10" x		Partially
Closed Pipe		☐ Steel		Ï∑ Box	☐ Triple			
•		Other:		☐ Other:	Other:			With Sediment:
								Partially Fully
		☐ Concrete						
		Earthen		☐ Trapezoid		Depth:	-	
Open drainage	e	☐ rip-rap		Parabolic		Top Width: _		
		Other:		Other:		Bottom Widt	h:	
☐ In-Stream		(applicable w		ing gamples)				
Flow Present?		☐ Yes	X		p to Section 5	Wet, M	whe tri	-\c(-
Flow Description		163			p to section 5	WEF , 100	rghe Mi	CHUE
(If present)		☐ Trickle	☐ Mode	erate Substantial				
Section 3: Qua	ntitati	iva Chama <i>ata</i>	mization					
Section 5: Qua	шцац	ive Characie	Tization	FIELD DATA FOR F	LOWING OUT	ALLS		
P	ARAME	ETER		RESULT		UNIT	EC	QUIPMENT
• •		Volume		11,2001		Liter		
□Flow#1		Time to fill				Sec		
		Flow depth				In		
_		Flow width	<u>0</u> '	33		Ft, In		_
☐Flow #2	1	Measured length	ı <u>0</u> '	37		Ft, In		
		Time of travel				Sec		
	rempera	nture				°F		
	pН					pH Units	Те	st strip/Probe
	Ammo	nia				ppm		Test strip

INDICATOR CHECK if Present	CHECK if Present	DESCRIPTION	RELATIV	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor	☐ Sewage	age ☐ Rancid/sour ☐ Petroleum/gas ide ☐ Other:	□ 1 Faint □	2 - Easily detected	☐ 3 – Noticeable from a distance
Color	☐ ☐ Clear	ır □ Brown □ Gray □ Yellow :n □ Orange □ Red □ Other:	□ 1 – Faint colors in □ sample bottle san	☐ 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!!	□ □ Sew	☐ 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 floatin sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and No Are physical indicators that are not related to flow present?	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)	ction 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	gae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	юп		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Ou	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 1: Back	grour	nd Data							
"ubwatershed:					Outfall	ID: 173	1-0		
.oday's date: (2/10	4/11			Time (N	Military):			
Investigators:	1	/ '			Form co	ompleted by:			
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48	hours: 0			
Latitutde: 232	270	6 Long	itude:	0616726	GPS Ur	rit:		GPS LMK #	#:
Camera: Nikon-	,				Photo #	s: 1865			
Land Use in Drair	nage Are	ea (Check all that appl	y):						
Industrial					Ope	n Space			
Ultra-Urban R	esidenti	al			Insti	itutional			
Suburban Resi	idential				Other: _				
☐ Commercial					Known	Industries:			
Notes (e.g, origin	n of out	fall, if known): large c	rabs, Mii	nnows, vegetation along ca	anal is spars	e, trash on sid	e of canal, pa	per and plastic.	_
5M	h	In 1981 70	D 6-	ล์คร					
			, ,,	,,,					
Section 2: Out				1					
LOCATION	<u> </u>	MATERIAL		SHA				SIONS (IN.)	SUBMERGED
			CMP	☐ Circular	☐ Single		Diameter/Dir	nensions:	In Water:
		PVC 🗀	HDPE	☐ Eliptical	☐ Double	;			☐ Partially ☐ Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple				With Sediment:
		Other:	_	☐ Other:	Other:				☐ No ☐ Partially
									Fully
		☐ Concrete					Donath		
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width: _		
		Other:		Other:			Bottom Widt	h:	
☐ In-Stream		(applicable when co	llecting	samples)					
Flow Present?		Yes	☐ No	If No, Ski	o to Section	15			
Flow Description (If present)		Trickle 🗆	Moderate	e 🔲 Substantial					
Section 3: Oue	ntitati	ive Characterizat	tion						
Section 5. Qua		.,,		FIELD DATA FOR FI	LOWING	OUTFALLS			
P.	ARAMI	ETER		RESULT		U	NIT	E	QUIPMENT
		Volume				L	iter		
☐Flow #1		Time to fill	ð,	15 gal/min		5	Sec		_
		Flow depth					In		
□□#^		Flow width	<u>0</u> '	"		F	t, In		
□Flow #2	1	Measured length	0,	"		F	t, In		
l		Time of travel					Sec		
,	Tempera	ature					°F		
	pН					pН	Units	T	est strip/Probe
	Ammo	nia				r	nom		Test strip

Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	dicators for Flov	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	DESCRI	RELATIVE SEVERITY INDEX (1-3)	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 ☐ 2 — Clearly visible in sample bottle 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 floatin sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide			
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Bot that are not relat	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)	ection 6)	
INDICATOR	CHECK if Present	resent DESCRIPTION	COMMENTS	5
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	cen	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ation		
N Unlikely □	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	

Section 1: Back	grour	ıd Data							
abwatershed:					Outfall ID:	P3	1-02		
.oday's date:	17/	14/11			Time (Milita	ary):	532		
Investigators:	3	J. AR			Form comple	eted by:	3 W		
Temperature (°F):		7	Rainf	all (in.): Last 24 hours; 0	Last 48 hours	s: 0			
Latitutde: 2	357	085 Loi	gitude: 6	0616618	GPS Unit:			GPS LMK #:	
Camera: Nikon-					Photo #s:	186	<u> </u>		
Land Use in Drain	age Are	ea (Check all that app	oly):						
Industrial					Open Spa	ace			
Ultra-Urban Re	esidenti	al		62	☐ Institutio	onal			
Suburban Resi	dential				Other:				
Commercial					Known Indu	ıstries:			
Notes (e.g, origin	of out	fall, if known): large	crabs, Mi	nnows, vegetation along c	anal is sparse, tra	ash on sic	le of canal, paper	and plastic.	_
(evan	1/2	on botto	m of	pipe, 10	with in	1921	2000	-1	
				1 1	7 - 7 - 7	127			
Section 2: Outf				SH	ADE		DIMENSIO	NC (TN)	SUBMERGED
LOCATION	•	MATERIA RCP	CMP	Circular	Single		Dimension Diameter/Dimen		In Water:
				-	_		1811	510115.	□ ∕No
			HDPE	☐ Eliptical	Double				☐ Partially ☐ Fully
Closed Pipe		Steel		Box	Triple				With Sediment:
		Other:	_	Other:	Other:	_			☑ No ☐ Partially
									Fully
		☐ Concrete		☐ Trapezoid			Depth:		
Open drainage		☐ Earthen		☐ Parabolic			Top Width:		
C) Open dramage	-	☐ rip-rap					Bottom Width: _		
		☐ Other:		Other:			Bottom width		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		☑ Yes	□ No	If No, Ski	p to Section 5				
Flow Description (If present)		☐ Trickle	Moderat	e Substantial	_				
Section 3: Qua	ntitati	ive Characteriz	ation						
		_		FIELD DATA FOR F	LOWING OUT	FALLS			
P	ARAMI	ETER		RESULT		U	INIT	EC	QUIPMENT
□Flow #1		Volume		•		I	Liter		
TIOW #1		Time to fill	C	2. Sgallnin			Sec		
		Flow depth		20 1			In		
□Flow #2		Flow width		,,			ł, In		
	1	Measured length	0,	,,			t, In		
		Time of travel					Sec		
7	Tempera						°F		-t -t-i (Dr-1-
	pН						Units		st strip/Probe
	Ammo	nia				1	mac		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	ndicators for Flowin; tors Present in the flow?	Outfalls Only $ \Box Yes \qquad \Box \dot{N}_0 \qquad (If No, Skip to Section 5) $			
INDICATOR	CHECK if Present	DESCRIPTION	REI	RELATIVE SEVERITY INDEX (1-3)	(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)
Notes: Potential tidal influence due to low tide	ence due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Both F s that are not related t	Section 5: Physical Indicators for Both Flowing and Non-Nowing Outfalls Are physical indicators that are not related to flow present? Yes No (If No., Skip to Section 6)	ction 6)		
INDICATOR	CHECK if Present	ent DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int Å		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:,Ŋ	Sediment and algae	and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality	- -□	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	æn		
Pipe benthic growth	中	☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Ohtfall Characterization	tfall Characterizati	on			
Unlikely 🛴	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	of 3) 🔲 Obvious	

Section 1: Back	grour	nd Data								
abwatershed:						Outfall	ID: 72	1-02	-	
oday's date:	RÞ.	12/14/	l I			Time (N	Military): 1	520		
Investigators:	7	7 1				Form co	ompleted by:	プ し		
Temperature (°F):		_		Rainfa	ll (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde:		,	Longi	tude:		GPS Ut	nit:		GPS LMK #:	
Camera: Nikon-						Photo #	s: 180	56		
Land Use in Drain	age Are	ea (Check all tha	t apply):						
Industrial						☐ Ope	n Space			
Ultra-Urban R	esidenti	al				☐ Insti	itutional			
☐ Suburban Resi	dential					Other: _				
☐ Commercial						Known	Industries: _			
Notes (e.g, origin			arge cr	abs, Min	nows, vegetation along o	canal is spars	se, trash on si	de of canal, paper a	and plastic.	
LOCATION	1	/ MATE	RIAL		SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
/		□ PVC		CMP HDPE	☐ Cipcular ☐ Eliptical	☐ Single ☐ Double		Diameter/Dimen	sions:	In Water: No Partially Fully
Closed Pipe		☐ Steel			Вох	☐ Triple				With Sediment:
I		Other:		-	Other:	Other:				No Partially Fully
		☐ Concrete						Death		
_		☐ Earthen			☐ Trapezoid			Depth:		
Open drainage	е	☐ rip-rap			☐ Parabolic			Top Width:	_	
		Other:	_		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable w		llecting	samples)			_		
Flow Present?		1 Yes		□ No		ip to Section	15			
Flow Description (If present)		Trickle	□ N	Moderate	: Substantial					
Section 3: Qua	ntitati	ive Characte	rizati	ion						
					FIELD DATA FOR F	LOWING	OUTFALLS			
P.	ARAMI	ETER		•	RESULT		ι	JNIT	EC	QUIPMENT
□Flow #1		Volume			,			Liter		
		Time to fill		0.0	1592 /min			Sec		
		Flow depth			0.7			In		
☐Flow #2		Flow width		0',				Ft, In		
-	1	Measured length	l	<u>0</u> ' '	,]	Ft, In		
		Time of travel						Sec		_
` <u> </u>	Tempera						_	°F	-	
	pH							I Units		st strip/Probe
	Ammo	nia						ppm		Test strip

Are Any Physical Indicators Present in the flow?	Are Any Physical Indicators Present in the flow? Yes	Yes \square No (If No, Skip to Section 5)		
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	3)
Odor	☐ Sewage	vage ☐ Rancid/sour ☐ Petroleum/gas fide ☐ Other:	☐ 1 — Faint ☐ 2 — Easily detected ☐	3 – Noticeable from a distance
Color	☐ Clear	ar □ Brown □ Gray □ Yellow cen □ Orange □ Red □ Other:	☐ 1 – Faint colors in ☐ 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!!	□ □ Sew	☐ 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 floatin; sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide			
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	ection 6)	
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een	
Pipe benthic growth	2	☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Ou	Section 6: Overall Outfall Characterization			
☑ Unlikely □	Potential (presence of two or more indicators)	two or more indicators) Suspect (one or more indicator	indicators with a severity of 3) Dovious	

Section 1: Back	groun	ıd Data							
^ubwatershed:					Outfall	ID: (~)	2-03		
oday's date:	2/1	4/ u			Time (N	Military):	515		
Investigators:	74	AIL			Form co	ompleted by:	グシ		
Temperature (°F):	,			all (in.): Last 24 hours:	: 0 Last 48 l	hours: 0			
Latitutde: 🎖 1	35	7 142 Longi	tude: (5616534	GPS Un	nit:		GPS LMK #:	
Camera: Nikon-					Photo #	s: (6	55		
Land Use in Drain	age Are	ea (Check all that apply):						
☐ Industrial					☐ Ope	n Space			
Ultra-Urban R	esidenti	al			☐ Insti	itutional			
Suburban Resi	dential				Other: _				
☐ Commercial					Known	Industries:			
Notes (e.g, origin	of out	fall, if known): large cr	abs, Mir	nnows, vegetation along					,
				related to	o lair	ever	1. Stopp	ed at e	16
C4 2. O.46	2-11 Da						3 1		
Section 2: Outf		MATERIAL		Si	HAPE /		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □ C		Circular	Single		Diameter/Dimen	sions:	In Water:
,			HDPE	☐ Eliptical	Double		24	4	Mo ☐ No ☐ Partially
Closed Pipe		Steel		Вох	☐ Triple				Fully
LA CIUSCU L'IPO		Other:		Other:	Other:				With Sediment:
ı		Coner.	_	C. Other.	Outer.				Partially
		Concrete							☐ Fully
				☐ Trapezoid			Depth:		
Open drainage	e	☐ Earthen		☐ Parabolic			Top Width:	_	
		rip-rap		☐ Other:			Bottom Width: _		A.
		Other:							
☐ In-Stream		(applicable when co		-			_		
Flow Present?		Yes	□ No	If No, S	kip to Section	i 5			
Flow Description (If present)		☐ Trickle	Moderate	e 🔲 Substantial					
Section 3: Qua	ntitati	ive Characterizat	ion						
				FIELD DATA FOR	FLOWING	OUTFALLS			
P	ARAMI	ETER		RESULT		Ų	INIT	EC	QUIPMENT
□Flow #1		Volume			\ 1]	Liter		
		Time to fill		29	m) min		Sec		
		Flow depth			r		In		
□Flow #2		Flow width	<u> </u>				ft, In		
		Measured length	<u>0</u> ' '	,			ft, In		
		Time of travel					Sec		
·	Fempera						°F		
	pH		-			pH	I Units	Te	st strip/Probe
	Ammo	nia				1	ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flowin	Outfalls Only \square Yes \square No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCR	RE	RELATIVE SEVERITY INDEX (1-3)	(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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Both F	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)	ction 6)		
INDICATOR	CHECK if Present			COMMENTS	S
Outfall Damage		Spalling, Cracking or Chipping	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characterizati	DH			
Unlikely 🗆	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more	Suspect (one or more indicators with a severity of 3)	of 3) 🔲 Obvious	

section 1: Back	grouna Dat	1							
ubwatershed:	,				Outfall	ID: P3	3-01		
.oday's date: η	2/14/	(Time (I	Military): 【	500		
Investigators:	~ A	_			Form c	ompleted by:	<u> </u>		
Temperature (°F):	,		Rainfa	all (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 235	722	Lo	ngitude:	0616471	GPS U	nit:		GPS LMK#	<u>-</u>
Camera: Nikon-					Photo #	s: 18L	18-49		
Land Use in Draina	age Area (Chec	c all that ap	ply):						
☐ Industrial					□ Оре	n Space			
Ultra-Urban Re	esidential				Inst	itutional			
☐ Suburban Resid	lential				Other:				
Commercial					Known	Industries:			<u>. </u>
				nnows, vegetation along	,			-	
servill	dma	otat	- 5to1	in drains	1001 0	Ivains.	Ramoo	2 m	ins beforeing
Section 2: Outfa	l		٦.	caining in p					71
LOCATION		MATERIA			APE APE	27 64	DIMENSI	ONS (IN.)	SUBMERGED
	[⊿∕RC		СМР	Circular	Single		Diameter/Dimer		In Water:
,	□PV] HDPE	☐ Eliptical	Double		181		No ☐ Partially
Closed Pipe	☐ Ste			Box	☐ Triple				Fully
— ••••••		er:		☐ Other:	Other:				With Sediment:
		···	_						☐ Partially ☐ Fully
	□ Co	crete							
	☐ Ear			☐ Trapezoid			Depth:		
Open drainage				☐ Parabolic			Top Width:	_	
	☐ rip	rap		☐ Other:			Bottom Width:		
	Oti	er:							
☐ In-Stream		able when							
Flow Present?	₩ Ye	s	₫‰	If No, Sk	ip to Section	15 Dega	a while	ing per	fice
Flow Description (If present)	☐ Tri	kle [] Moderat	e Substantial		<i>J</i>			<i></i>
Section 3: Quar	ntitative Ch	aracteriz	ation						
				FIELD DATA FOR F	LOWING	OUTFALLS			
PA	RAMETER			RESULT		u	INIT	E	QUIPMENT
□Flow#1	Volu	me		,		1	Liter		_
	Time	o fill	디	gal/min			Sec		
	Flow	lepth	_			_	In		
□Flow #2	Flow			"			Ft, In		
	Measure		<u>0</u> '	73		_	Ft, In		
	Time of	travel					Sec		_
Т	'emperature						°F		
	pH					pН	I Units	Те	est strip/Probe
	Ammonia						nom		Test strip

Are Any Physical Indicators Present in the flow? Yes	ors Present in the flow	Yes No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRI	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 ☐ 2 — Clearly visible in ☐ 3 — Clearly visible in sample bottle sample bottle outfall flow
Turbidity		See severity	\square 1 - Slight cloudiness \square 2 - Cloudy \square 3 - Opaque
Floatables -Does Not Include Trash!!	0	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	□ 1 – Few/slight; origin of origin (e.g., obvious oil possible suds or oil sheen, sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide		
Section 5: Physical Indicators for Both Flowing and Non- Are physical indicators that are not related to flow present?	dicators for Both F	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Ves No (If No, Skip to Section 6)	on 6)
INDICATOR	CHECK if Present	ent DESCRIPTION	COMMENTS
Outfall Damage	, _	Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		Lobily Allow Line Paint Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	tfall Characterizat	on	
Unlikely 🗆	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	licators with a severity of 3)

Section 1: Bacl	kgrow	nd Data							
"ubwatershed:					Outfall I	D: 173	502		_
oday's date:	12/	14/4			Time (M		330		
Investigators:	زيد	AC			Form co	mpleted by:			
Temperature (°F)	: ′ ·)	Rainf	all (in.): Last 24 hours:	0 Last 48 h	ours: 0			_
Latitutde: 2-3	5750	IS Lon	gitude: (6530	GPS Un	it:		GPS LMK #	:
Camera: Nikon-					Photo #s	151	9, 1821		
Land Use in Drain	nage Are	ea (Check all that app	ly):				,		
☐ Industrial					☐ Oper	Space			
Ultra-Urban F	Residenti	ial			☐ Instit	utional			
Suburban Res	idential				Other: _				
Commercial					Known l	Industries: _			
	n of out	fall, if known): large	rabs, Mi	nnows, vegetation along o					
rock					•			•	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/								
Section 2: Out		escription					1		1
LOCATIO	N	MATERIA			APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □	CMP	Circular	Single		Diameter/Dimer	sions:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double				Partially Fully
Closed Pipe		☐ Steel		Вох	☐ Triple				
		☐ Other:		☐ Other:	Other: _				With Sediment:
									☐ Partially ☐ Fully
_		☐ Concrete							
_		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		☐ Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable when o	ollecting	samples)					
Flow Present?		Yes	□ No		p to Section	5		_	
Flow Description			_		<u> </u>				
(If present)		☐ Trickle	Moderat	e Substantial			_		
Section 3: Qua	ntitati	ive Characteriza	tion						
		_		FIELD DATA FOR F	LOWING O	UTFALLS			
P	ARAME	ETER		RESULT		υ	INIT	E(QUIPMENT
□ = 1#1		Volume		,]	Liter		
∏Flow#1		Time to fill	(gai/win			Sec		
		Flow depth	,)			In		-
□Flow #2		Flow width	<u>0</u> '	"		I	ł, In		
	ı	Measured length	<u>0</u> '	"		I	t, In		
		Time of travel					Sec		
	Tempera	iture					°F		
	pН					pН	Units	Те	st strip/Probe
	Ammo	nia					nnm		Test strin

Section 4: Physical Indicators for Flowing Outfalls Onl Are Any Physical Indicators Present in the flow? Yes	dicators for Flow ors Present in the flo	ring Outfalls Only ' yw? ☐ Yes ☐ No (If No, Skip to Section 5)		
INDICATOR	CHECK if Present	DESCR	RELATIVE SEVERITY INDEX (1-3)	
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 — Faint ☐ 2 — Easily detected ☐ 3 -	☐ 3 — Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	□ 1 - Faint colors in □ 2 - Clearly visible in □ 3 - sample bottle sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity		See seventy	☐ 1 – Slight cloudiness ☐ 2 – Cloudy ☐ 3 –	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)
Notes: Potential tidal influence due to low tide	nce due to low tide			
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? A Yes No (If No, Skip to Section 6)	ction 6)	
INDICATOR	CHECK if Present	esent DESCRIPTION	COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality	,	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen \□ Suds ☐ Excessive Algae ☐ Other:	жп	
Pipe benthic growth	PA PA	⅓ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ation		
Unlikely 🛚	Potential (preser	two or more indicators)	Suspect (one or more indicators with a severity of 3)	

Section 1: Back	kgroui	nd Data							
ubwatershed:					Outfall I	D: 73	35-03		
oday's date:	12/	14/4			Time (M	lilitary):	1322		
Investigators:	- /	,			Form co	mpleted by	<i>r</i> :		
Temperature (°F):	:		Rainf	all (in.): Last 24 hours:	0 Last 48 h	ours: 0			_
Latitutde:		Lo	ngitude:		GPS Un		,	GPS LMK #	:
Camera: Nikon-				_	Photo #s	<u>:</u> 18	18		
Land Use in Drair	nage Are	ea (Check all that app	oly):						
☐ Industrial					☐ Open	ı Space			
Ultra-Urban R	esidenti	ial			☐ Instit	tutional			
Suburban Resi	idential				Other: _				
Commercial					Known 1	Industries:			
			crabs, Mi	nnows, vegetation along c	anal is spars	e, trash on	side of canal, paper	and plastic.	
unde	5 0	ie/							
	`								
Section 2: Outf		SCRIPTION MATERIA	\1	SH.	APE		DIMENSIO	NC (TN)	SUBMERGED
LOCATION	•	-/	CMP	Circular	Single		Diameter/Dimen		In Water:
			HDPE	☐ Eliptical	☐ Double		ال لخا	310113.	□ No □ Partially
Claud Pian			HDFE						Fully
Closed Pipe		Steel		Box	Triple				With Sediment:
·1		Other:		Other:	Other:				☐ No ☐ Partially
		_							☐ Fully
		Concrete		☐ Trapezoid			Depth:		
Open drainage	e	Earthen		☐ Parabolic			Top Width:		
		☐ rip-rap		☐ Other:			Bottom Width:		
		☐ Other:		Other.			Bottom Width		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		Yes		If No, Ski	p to Section	5			
Flow Description (If present)		☐ Trickle 💆	Moderat	e					
Section 3: Qua	ntitati	ive Characteriza	ation						
				FIELD DATA FOR F	LOWING C	UTFALLS	 _		
P	ARAMI	ETER		RESULT			UNIT	EC	QUIPMENT
□Flow #1		Volume		2 /			Liter		
		Time to fill		soul/min			Sec		
		Flow depth		U.			In		
□Flow #2		Flow width	<u>0</u> '	,,			Ft, In		
-	1	Measured length	0,	,,			Ft, In		
1		Time of travel					Sec		
) <u> </u>	Tempera						°F		
	pН					p	oH Units	Tes	st strip/Probe
	Ammo	nia					ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flowing ors Present in the flow?	Outfalls Only Yes No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRI	REL	RELATIVE SEVERITY INDEX (1-3)	(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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both Flus that are not related to	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalfs Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)	ection 6)		-
INDICATOR	CHECK if Present	nt DESCRIPTION		COMMENTS	5
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	nd algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Sectign 6: Overall Outfall Characterization	ıtfall Characterizatio	n			
☑ Unlikely □	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	indicators with a severity of 3)	of 3) Dovious	
S	. Non Illiait Diocharm Cana	neme (o a track or mooded infractructure reneire)?			

Section 1: Back	grour	nd Data				- 0.4	05		
ubwatershed:					Outfall 1	ID: 73	5-63-2	<u> </u>	
oday's date: 1	41	4/11			Time (M	Iilitary): して	,03		
Investigators: .	<u>ろし</u>	ARMA			Form co	mpleted by:	-5W		
Temperature (°F):				all (in.): Last 24 hours: 0	Last 48 h	nours: 0			
Latitutde: 735	57E	7.6 de Long	itude: C	616490	GPS Un			GPS LMK #:	
Camera: Nikon-					Photo #s	s: 181	3-1814	1	
Land Use in Drain	age Are	ea (Check all that appl	y):						
☐ Industrial					Oper Oper	n Space			
Ultra-Urban R	esidenti	al			☐ Insti	tutional			
Suburban Resi	dential				Other: _				
Commercial					Known	Industries:			
Notes (e.g, origin	n of out	fall, if known): large c	rabs, Mii	nnows, vegetation along ca	anal is spars	e, trash on sid	de of canal, paper	and plastic.	
11mb5									
Section 2: Out	Eall Da						_		
LOCATION		MATERIAL		SHA	APE		DIMENSIO	NS (IN.)	SUBMERGED
	-	-	СМР	Circular	Single		Diameter/Dimen		In Water:
			HDPE	☐ Eliptical	☐ Double		364		No ☐ Partially
T CI I D'		□ Steel		Box	☐ Triple				Fully
Closed Pipe					_				With Sediment:
		Other:	_	Other:	Other:				☐ No ☐ Partially
		_							☐ Fully
		Concrete		☐ Trapezoid			Depth;		
Open drainage	e	☐ Earthen		☐ Parabolic			Top Width:		
		☐ rip-rap		☐ Other:			Bottom Width: _		
		Other:		Other:			Bottom Widan_		
☐ In-Stream		(applicable when co	llecting	samples)					
Flow Present?		Yes	₽́№	If No, Skij	p to Section	5			
Flow Description (If present)		☐ Trickle 🖼	/ Moderate	e 🔲 Substantial					
Section 3: Qua	ntitati	ive Characteriza	tion						
				FIELD DATA FOR FI	LOWING	DUTFALLS			
P	ARAMI	ETER		RESULT		U	INIT	EC	QUIPMENT
□ □ □ · · · · 41		Volume				I	Liter		
□Flow #1		Time to fill	١-	254/min			Sec		
		Flow depth		<u> </u>			In		
☐Flow #2		Flow width	0,	,,		I	₹t, In		
LITIOW #2	1	Measured length	Ō,	,,		I	ł, In		
,i 		Time of travel					Sec		
	Tempera	ature					°F		
	pН					pH	Units	Те	st strip/Probe
	Ammo	nia				1	ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flov ors Present in the fl	ring Outfalls Only \nearrow \square No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRJ	RELATIVE	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		☐ Sewage☐ Rancid/sour☐ Petroleum/gas☐ Other:	☐ 1 – Faint ☐ 2	2 – Easily detected	3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in ☐ 2 sample bottle	☐ 2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 – Slight cloudiness ☐ 2	☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both that are not relate	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)	ection 6)		
INDICATOR	CHECK if Present	resent DESCRIPTION		COMMENTS	
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	ıe	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	een		
Pipe benthic growth	Z	⊿Brown □ Orange □ Green □ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
🗹 Unlikely 🔲	Potential (prese	two or more indicators)	Suspect (one or more indicators with a severity of 3)	☐ Obvious	

Section 1: Back	groun	nd Data							
Subwatershed:					Outfall	1D: P3	フーも		
oday's date:					Time (N	/lilitary): [1-1		
Investigators:					Form co	ompleted by:	34		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0) Last 48 l	nours: 0			
Latitutde: 235	576	50 Long	itude: (0616351	GPS Un	nit:		GPS LMK #	:
Camera: Nikon-					Photo #	s: 170	16		
Land Use in Drain	age Are	a (Check all that apply	/):						
☐ Industrial					☐ Ope	n Space			
Ultra-Urban R	esidenti	al			☐ Insti	tutional			
☐ Suburban Resi	dential				Other: _				
☐ Commercial					Known	Industries:			
Notes (e.g, origin	of out	fall, if known): large cr	abs, Miı	nnows, vegetation along ca	anal is spars	se, trash on sid	de of canal, paper	and plastic.	
lock	۶,	(1abs -		tracked ps	Free	-14	eunake	~	
				(2		· ·		-	
Section 2: Outf		scription MATERIAL		Su/	APE _		DIMENSIO	NS /TN)	SUBMERGED
LOCATION	•		CMP	Circular	Single		Diameter/Dimen		In Water:
			HDPE	☐ Eliptical		:	24"	sions.	
Closed Pipe		☐ Steel		Вох	☐ Triple				Fully
		Other:		Other:	Other:				With Sediment: ☐ No
I			_						☐ Partially ☐ Fully
		Concrete					- 1		
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		Parabolic			Top Width:	_	
		Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)					
Flow Present?		Yes	☐ No	If No, Ski	p to Section	5			
Flow Description (If present)		Trickle	Moderate	e					
Section 3: Oua	ntitati	ive Characterizat	ion	_					
200000000000000000000000000000000000000				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	ETER		RESULT		u	INIT	E	QUIPMENT
□E!#1		Volume		_		I	Liter		
□Flow #1		Time to fill	~	0.5 galloin			Sec		_
		Flow depth		<u> </u>			In		
□Flow #2		Flow width	Ō,	,,		F	t, In	_	
L	1	Measured length	Ō,			F	t, In		
I		Time of travel					Sec		
	Tempera	ature					°F		
_	pН					рĦ	(Units	Te	est strip/Probe
	Ammo	mia				1	man		Test strip

INDICATOR CHECK if Present	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ I	☐ 1 — Faint ☐ 2 — Easily detected ☐ 3 — Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ I	□ 1 – Faint colors in □ 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 ☐ 1 ☐ Petroleum (oil sheen) ☐ Other: not to	□ 1 – Few/slight; origin not obvious □ 2 – Some; indications of origin (e.g., possible suds or oil sheen, suds, or floating sheen)
Notes: Potential tidal influence due to low tide	ence due to low tide		
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both		
INDICATOR	s that are not related	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? \square Yes \square No $(If No, Skip to Section 6)$	16)
Outfall Damage	s that are not related to f	DESCRI	(6) COMMENTS
Deposits/Stains	CHECK if Pre	DESCRI	
Abnormal Vegetation	CHECK if Pre	DESCRI pping	sediment and algae
Poor pool quality	CHECK if Pre	DESCRI ping	sediment and algae
Pipe benthic growth	CHECK if Pre	ping Paint Paint Paint	sediment and algae
Section 6: Overall Outfall Characterization	CHECK if Pre	DESCRU pping pping Paint Paint □ Flo	sediment and algae
	CHECK if Pre	ping ping ping ping G	sediment and algae
Unlikely	CHECK if Pre	DESCRI ping ping Paint Paint Paint Suspe	sediment and algae

Section 1: Back	groun	nd Data						
¬ubwatershed:					Outfall ID:	37-01 P	345017	37-02
oday's date:					Time (Military):	1200		
Investigators:					Form completed b	ру: 5W		
Temperature (°F):		,		all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde: 235	5758	Longi Longi	tude: (0616313	GPS Unit:		GPS LMK #	
Camera: Nikon-					Photo #s: 17	97 (Sheen)	, MA 13	1-133
Land Use in Drain	age Are	ea (Check all that apply):			. ,		
☐ Industrial					Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:			
Commercial					Known Industries	:		
Notes (e.g, origin				nnows, vegetation along ca	anal is sparse, trash or	n side of canal, paper	and plastic.	
	d	Isains toom	parl	cty are				
Santian 2. Out			•)				
Section 2: Outf		MATERIAL		SHA	APE /	DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP □ C	MP	Circular	Single	Diameter/Dimer		In Water:
			IDPE	☐ Eliptical	☐ Double	12"		☑ No ☐ Partially
Closed Pine				Вох	☐ Triple			Fully
- closed ripe	. -			Other:	☐ Other:			With Sediment:
ì	Closed Pipe							Partially Fully
	Closed Pipe						·	
	☐ Concrete			☐ Trapezoid		Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic		Top Width:	_	
				Other:		Bottom Width:		
☐ In-Stream		Other: (applicable when co	lla atima	nonumber\				
Flow Present?		Yes Yes	□ No		p to Section 5			
Flow Present:		1			o to Section 3			
(If present)		□ rickle □ N	/loderate	e Substantial				
Section 3: Qua	ntitati	ive Characterizat	ion					
				FIELD DATA FOR F	LOWING OUTFAL	LS		
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow #1		Volume				Liter		
		Time to fill	be	urely a drip		Sec		
		Flow depth				In		
☐Flow #2		Flow width	0,	**		Ft, In		
	1	Measured length	0'	**		Ft, In		
,		Time of travel				Sec		
`	Tempera	ature				°F		
	pН					pH Units	Те	st strip/Probe
	Ammo	onia				ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ors Present in the flow?	☐ Yes ☐ No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION	RELAT	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 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)
Notes: Potential tidal influence due to low tide	ince due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both F	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)	sction 6)		
INDICATOR	CHECK if Present	nt DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited /			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en en		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	ı#all Characterizati	מנ			
口 Unlikely 国	Potential (presence	two or more indicators)	Suspect (one or more indicators with a severity of 3)	3) 🔲 Obvious	

Section 1: Back	grour	nd Data		-	_				
"ubwatershed:		,			Outfall		8-01		
√oday's date: \	2/1	4/11			Time (N	Ailitary): 🕇	207		
Investigators:	5W	MAJAR			Form co	ompleted by:	ラン		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 I	hours: 0			
Latitutde: 23	576	25 Long	itude:	0616215	GPS Un	nit:		GPS LMK #	:
Camera: Nikon-					Photo #	s: 179	8-1799	1800 -	- 51 (hose From
Land Use in Drain	nage Are	ea (Check all that appl	y):					/	mok
☐ Industrial					☐ Ope	n Space			
Ultra-Urban R	esidenti.	al			☐ Insti	tutional			
Suburban Resi	idential				Other: _				
Commercial					Known	Industries: _			
Notes (e.g, origin	n of outi	fall, if known): large c	rabs, Mi	nnows, vegetation along ca	anal is spars	se, trash on si	de of canal, paper	and plastic.	
			lou	d be from ice	i ment	ter. F	low late	z ile mu	kar dischage
Section 2: Outi		scription MATERIAI		SHA	APE ,		DIMENSI	ONS (IN.)	SUBMERGED
			CMP	Circular	Single		Diameter/Dimer		In Water:
			HDPE	☐ Eliptical	Double	;	12"		☐ No ☐ Partially
☐ Closed Pipe		☐ Steel		Вох	☐ Triple				☐ Fully
•		Other:		☐ Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
		Concrete							
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		☐ Other:		☐ Other:			Bottom Width:		
☐ In-Stream		(applicable when co	allecting	samples)					
Flow Present?		Yes	□ No		p to Section	15			
Flow Description (If present)			Moderat				_		
Section 3: Qua	ntitati	ive Characteriza	tion						
				FIELD DATA FOR F	LOWING	OUTFALLS			
P.	ARAMI	ETER		RESULT		ι	JNIT	E	QUIPMENT
☐Flow #1		Volume				1	Liter		
		Time to fill		5 gal/nin			Sec		
		Flow depth					In		
☐Flow #2		Flow width		"			Ft, In		
	ì	Measured length	0,	"			Ft, In		
		Time of travel					Sec		
,	Tempera	ature					°F		
	pН					pl	I Units	Te	est strip/Probe
	Ammo	nia					ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	dicators for Flow ors Present in the flo	ring Outfalls Only \nearrow $\text{Sw?} \square \text{ Yes} \qquad \square \text{ No} \qquad (If No, Skip to Section 5)$		
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)	EX (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 ☐ 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)	s 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide			
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Both	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)	ection 6)	
INDICATOR	CHECK if Present	resent DESCRIPTION	COMMENTS	ENTS
Outfall Damage]	☐ Spalling, Cracking or Chipping ☐ Pecling Paint ☐ Corrosion /	nint	
Deposits/Stains	<u> </u>	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sed imont and alg ne りょかしへ	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	een	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	tfall Characteriz	ation		
Unlikely	Potential (preser	two or more indicators)	Suspect (one or more indicators with a severity of 3)	3

Section 1: Bac	kgrou	nd Data							
ייbwatershed:	_				Outfall	ID: 1739	5-04		
.oday's date:	12/	14/4	_		Time (Military):	240		
Investigators:	ζi	1) APS MA			Form o	ompleted by:	ろし		
Temperature (°F)	:	, ,	Rainf	all (in.): Last 24 hours:	0 Last 48	hours: 0			
Latitutde: 23	578	SOD Lor	ngitude:	0616351	GPS U	nit:		GPS LMK#	:
Camera: Nikon-					Photo #	ts: 140	76		
Land Use in Drai	nage Are	ea (Check all that app	oly):						
Industrial					☐ Ope	en Space			
Ultra-Urban F	Residenti	al			☐ Inst	itutional			
Suburban Res	idential				Other:				
Commercial					Known	Industries:			
Notes (e.g, origi	n of out	fall, if known): large	crabs, Mi	nnows, vegetation along					
		_			-			•	
Section 2: Out			_				T		
LOCATIO	N	MATERIA			IAPE		DIMENSI		SUBMERGED
			CMP	Circular	Single		Diameter/Dimer	nsions:	In Water:
		□ PVC □] HDPE	☐ Eliptical	☐ Double	e	50		Partially Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple				With Sediment:
		Other:		Other:	Other:				☐ No ☐ Partially
									Fully
		Concrete					D. d.		
-		☐ Earthen		☐ Trapezoid			Depth:		
Open drainag	e	☐ rip-rap		☐ Parabolic			Top Width:		
		☐ Other:		Other:			Bottom Width:		
☐ In-Stream		(applicable when	collecting	samples)			<u></u>		
Flow Present?		Yes	[No		ip to Section	ı 5			
Flow Description			Moderat		<u>-</u>		_		
(If present)		I mekie	Moderat	e Suostantiai					
Section 3: Qua	ntitati	ive Characteriz	ation						
				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	TER		RESULT		ι	JNIT	E	QUIPMENT
Flow #1		Volume		,		1	Liter		
		Time to fill	V	ainy			Sec		
		Flow depth					In		
□Flow #2		Flow width	<u> </u>	··		1	Ft, In		
	1	Measured length	<u>ō</u> ,	-		1	Ft, In		
		Time of travel					Sec		
	Tempera	ture					°F		
	pН					pH	I Units	Те	st strip/Probe
	Ammo	nia					nom		Test strip

Are Any Physical Indicators Present in the flow? Yes	ors Present in the fl	S S		
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	EX (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 □ 2 - Clearly visible in sample bottle 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 of origin (e.g., not obvious possible suds or oil sheen)	s 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide	tipal intermittent		
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	dicators for Botls that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes M No (If No, Skip to Section 6)	ection 6)	
INDICATOR	CHECK if Present	esent DESCRIPTION	COMMENTS	ENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	
Deposits/Stains		☐ Oily A Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: —	Oil Sheen Other: f, b, f; iy	
Pipe benthic growth	Z	⊿Brown □ Orange ⊿Green □ Other.	' algae	
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ation	C	
Unlikely	Potential (prese	Potential (presence of two or more indicators) Suspect (one or more indicato	indicators with a severity of 3) Dovious	3

Section 1: Background Data

Subwatershed:						Outfall	ID:	P41-0	Ò	
.oday's date:		12/13	1)			Time (l	Military):	1321		
Investigators:		4丁	W			Form c	ompleted by:	•		
Temperature (°F):				Rainfa	dl (in.): Last 24 hours	: 0 Last 48	hours: 0			
Latitutde:	235	7950	Longit	tude:	0615879	GPS U	nit:		GPS LMK #:	
Camera: Nikon-						Photo #	ts: 🃆	39		
Land Use in Drain	age Are	a (Check all th	at apply)):						
Industrial						☐ Ope	n Space			
Ultra-Urban R	esidenti	al				☐ Inst	itutional			
Suburban Resi	dential					Other:				
☐ Commercial						Known	Industries: _			
Ī .			-		nows, vegetation along	=			and plastic.	
2	Mu	es Nec	<u>~ by</u>	a	Het hut	hom	bsp	culvert		
Section 2: Outf	all De	scription								
LOCATION	1	MAT	ERIAL		s	HAPE		DIMENSIO	ONS (IN.)	SUBMERGED
	.,	S RCP	□ C	MP	Circular	Single		Diameter/Dimen	sions:	In Water:
		₽VC	□н	DPE	☐ Eliptical	Double	•	304		☐ No Partially
Closed Pipe		☐ Steel			Box	☐ Triple				☐ Fully
1 '		Other:		=	☐ Other:	Other:				With Sediment:
Ĩ										Partially Fully
		☐ Concrete			Transit			Devile		
		☐ Earthen			☐ Trapezoid			Depth:		
Open drainage	2	rip-rap			Parabolic			Top Width:		
		Other:	_		Other:			Bottom Width: _		
☐ In-Stream		(applicable w	hen coll	lecting :	samples)			I		
Flow Present?		☐ Yes		No	If No, S	kip to Section	ı 5			
Flow Description (If present)		☐ Trickle	□м	loderate	Substantial					
Section 3: Qua	ntitati	ive Charact	erizati	on						
					FIELD DATA FOR	FLOWING	OUTFALLS			
P/	ARAME	ETER			RESULT		ι	TINU	EC	QUIPMENT
□Flow#1		Volume						Liter		
		Time to fill						Sec		
		Flow depth		0, ,				In		
□Flow #2		Flow width	<u></u>	<u> </u>				Ft, In		
		Measured length Time of travel		0, ,			<u> </u>	Ft, In Sec		
·	Tempera							°F		
1	рН						-Ia	I Units	Te	st strip/Probe
	Ammo							ppm		Test strip

INDICATOR	CHECK if Present	DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide		•		
ATE bitysical illurcators that are not related to now present:	mar are not retated	to now present: I res Levo (a) two, saip to section of	non o)		
INDICATOR	CHECK if Present	ent DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	ıt		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment	sediment and algae	
Abnormal Vegetation		Excessive Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	מ		
Diag bandin amust		Rrown Orange Ofreen Other:			
ripe benunc grown					
Section 6: Overall Ou	tfall Characterizati	[] strong			
	tfall Characterizati Potential (presence	two or more indicators)	Green Other: Suspect (one or more indicators with a severity of 3)	of 3) Obvious	

Section 1: Back	kgrour	ıd Data							
₹ubwatershed:		•			Outfall	D:	P41-02	<u>_</u>	
oday's date:		12 13/11			Time (M	lilitary):	1310		
Investigators:		1- JW			Form co	mpleted by:	*\h_		
Temperature (°F):				all (in.): Last 24 hours:		ours: 0			
Latitutde: 2	35	1 53 2 (PLongi	tude: 🖍	एकाइ ४ एक (GPS Un			GPS LMK #:	:
Camera: Nikon-	22	257 850		€615865	Photo #	· 17	<u> </u>		
Land Use in Drain	nage Are	ea (Check all that apply	·):						
[A] Industrial					Ope	Space			
Ultra-Urban R	esidenti	al			☐ Insti	tutional			
☐ Suburban Resi	dential				Other: _				
☐ Commercial					Known	Industries:			
			abs, Mii	nnows, vegetation along c	anal is spars	e, trash on si	de of canal, paper	and plastic.	
Section 2: Outf		MATERIAL		SH	APE		DIMENSIO	NS (IN.)	SUBMERGED
		□ RCP □ C	CMP	Circular	Single		Diameter/Dimen		In Water:
			IDPE	☐ Eliptical	Double		184		Martially ☐ Fully ☐ Fully
Closed Pipe		Steel		Вох	☐ Triple				
		Other:	-	☐ Other:	Other:				With Sediment: No Partially Fully
		Concrete							L Fully
				☐ Trapezoid			Depth:		
Open drainage	e	☐ Earthen		☐ Parabolic			Top Width:	_	
		☐ rip-rap		☐ Other:			Bottom Width: _		
		Other:							
☐ In-Stream		(applicable when co		_					
Flow Present?		Yes Yes	□ No	If No, Sk	ip to Section	5			
Flow Description (If present)		Trickle \(\sum \)	/Ioderat	e					
Section 3: Qua	ntitati	ive Characterizat	ion						
				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	ETER		RESULT		υ	INIT	EC	QUIPMENT
□Flow#1		Volume					Liter		
□10W #1		Time to fill		200 ml	Se Mir		Sec		
		Flow depth					In		
□Flow #2		Flow width	<u> </u>			I	ft, In		
	1	Measured length	0'	,,		I	ft, In		
		Time of travel					Sec		
•	Tempera						°F		
	pН					pH	I Units	Te	st strip/Probe
	Ammo	nia				1	ppm		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ndicators for Flowin	Uutfalls Only Yes □ No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)
Odor	; 	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color		□ Clear	□ 1 Faint colors in □ 2 Clearly visible in sample bottle □ 3 Clearly visible in outfall flow
Turbidity	Þ	See severity	1 − Slight cloudiness
Floatables -Does Not Include Trash!!	~п . ———	☐ 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, suds, or floatin, sheen) □ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin, sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide	(
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	ndicators for Both F s that are not related	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)	ction 6)
INDICATOR	CHECK if Present	ent DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	nt
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	ıtfall Characterizati	0 n	
Unlikely 🗓	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicator)	indicators with a severity of 3) Dovious
	•		

Section 1: Back	grour	nd Data								
^ubwatershed:						Outfall	D:	P42.	-0)	
.oday's date:		12/13	เน			Time (N	lilitary):	1342	_	
Investigators:		A Tu	<u> </u>			Form co	mpleted by:	<u>R</u>		
Temperature (°F):				Rainfa	ıll (in.): Last 24 hours: (Last 48 l	nours: 0		T	
Latitutde: 2	-35	1667	Longi	tude:	0615824	GPS Ur		• •	GPS LMK #	:
Camera: Nikon-						Photo #	s: 17'	11		
Land Use in Drain	nage Are	a (Check all tha	at apply)):						
Industrial						□Оре	n Space			
☐ Ultra-Urban R	esidenti	aI				Insti	tutional			
☐ Suburban Resi	idential					Other: _				
☐ Commercial						Known	Industries:			
Notes (e.g, origin			arge cra	abs, Min	nows, vegetation along c	anal is spars	e, trash on sid	le of canal, paper	and plastic.	
LOCATION			ERIAL		SHA	APE		DIMENSI	ONS (IN.)	SUBMERGED
		☐ RCP	□с	MP	K Circular	Single		Diameter/Dimer	isions:	In Water:
		☐ PVC	□н	IDPE	☐ Eliptical	₹ □ Double		24"		No Partially
Closed Pipe		Steel			☐ Box	☐ Triple				☐ Fully
, ,		Cother:			☐ Other:	Other:				With Sediment:
										Partially Fully
		☐ Concrete								
		☐ Earthen			☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap			☐ Parabolic			Top Width:	_	
		Other:			☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable w	— hon col	laating	samples)					
Flow Present?		Yes				p to Section	5			
Flow Description (If present)		Trickle		1oderate				coverf	Y	
Section 3: Qua	ntitati	ive Characte	erizati	ion				•	-	
Section 5. Qua		TVC CHARACT	<u> </u>	- CAI	FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	TER			RESULT		υ	NIT	E	QUIPMENT
		Volume					I	Liter		
☐Flow#I		Time to fill						Sec		
		Flow depth						In		
☐Flow #2		Flow width		<u>0</u> , ,	>		F	t, In		
	1	Measured length	ì	<u>ō</u> , ,	2		F	t, In		
		Time of travel						Sec		
-	Tempera	ture						°F		
	pН						pН	Units	Те	st strip/Probe
	Ammo	nia					1	ppm		Test strip

Are Any Physical Indicators Present in the flow? Yes	ors Present in the flo	w? Yes No (If No, Skip to Section 5)			
INDICATOR	CHECK if Present	DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 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	ss 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!		☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ I – 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 floatin sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and Non Are physical indicators that are not related to flow present?	dicators for Both	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)	tion 6)		
INDICATOR	CHECK if Present			COMMENTS	īS .
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	ıt		
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sed	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	in .		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriz	ation			
M Unlikely					
	Potential (presen	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)	ndicators with a seve	erity of 3) Obvious	

Section 1: Back	tgrour	nd Data											
Subwatershed:								Outfall	D;	PH	45 ~	5	
oday's date:		12/13	H					Time (M	filitary);	اسهند	1242		
Investigators:		An_	JW					Form co	mpleted by:	Pr.	_		
Temperature (°F):		•		Rainfa	ll (in.):	Last 24 h	ours: 0	Last 48 h	iours: 0				
Latitutde:	235	7548	Long	tude:	Del	570	1	GPS Un	it:		GPS LM	K#:	
Camera: Nikon-								Photo #	s: \	735			
Land Use in Drain	nage Are	ea (Check all ti	hat apply):									
☐ Industrial								Oper	n Space				
Ultra-Urban R	esidenti	al						☐ Insti	tutional				
Suburban Resi	idential							Other: _					
Commercial								Known	Industries:				
Notes (e.g, origin	1	Jen-e	large cr	abs, Min	nows, v S✓	vegetation a	along car	nal is spars depr	e, trash on sid	e of canal, pa	per and plastic		
LOCATION			TERIAL				SHA	PE		DIMEN	SIONS (IN.)	,	SUBMERGED
		☐ RCP		СМР	☐ Cii	rcular	I	Single		Diameter/Dir	nensions:		In Water:
		□ PVC	□ I	IDPE	☐ Eli	iptical	l	☐ Double			•		☐ No ☐ Partially
Closed Pipe		☐ Steel			□Во	x	ļ.	☐ Triple					☐ Fully
		Other:		_	☐ Oti	her:	l l	Other:					With Sediment:
													☐ Partially ☐ Fully
		☐ Concrete			C1 T	apezoid				Depth: Y4	ιţ		
H		Earthen				-			I	Top Width: _			
Open drainage	e	rip-rap			l [—] .	rabolic							
		Other:			IZ Ot	her:				Bottom Widt	h:		
☐ In-Stream		(applicable	when co	llecting	sample	s)							
Flow Present?		Yes Yes		☐ No		If N	Vo, Skip	to Section	5				
Flow Description (If present)		☐ Trickle	NQ 1	Moderate	* **	Substantial	l						
Section 3: Qua	ntitati	ve Charac	terizat	ion									
					FIEL	D DATA F	OR FLO	OWING (OUTFALLS				
P.	ARAME	ETER				RESUL1	Г		υ	NIT		EQ	UIPMENT
		Volume							L	iter			
☐Flow #1		Time to fill		Ma	<i>†</i> `	1/2 90	No	14c	5	Sec			
		Flow depth				•				In			
☐Flow #2		Flow width		<u>o</u> ' '	•				F	t, In			
		Measured leng	th	<u>0</u> ' "	,				F	t, In			
		Time of trave	l						5	Sec			
,	Tempera	ature								°F			
	pН								рН	Units		Tes	t strip/Probe
	Ammo	nia							n	om			Test strip

Are Any Physical Indicators Present in the flow? Yes	ors Present in the flow? [\square Yes \square No (If No, Skip to Section 5)		
INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	DEX (1-3)
Odor	s c	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint ☐ 2 — Easily detected	3 – Noticeable from a distance
Color	☐ Clear	lear KaBrown □ Gray □ Yellow reen □ Orange □ Red □ Other:	☐ 1 – Faint colors in ☐ 2 – Clearly visible in sample bottle	in ☐ 3 ~ Clearly visible in outfall flow
Turbidity	×	See sevenity Wighly	\square 1 – Slight cloudiness \square 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)	ons 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide			
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both Flo that are not related to	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)	ection 6)	
INDICATOR	CHECK if Present	t DESCRIPTION	COMI	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	
Deposits/Stains	**	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae Sediment	ent
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality	4	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other: 2	sediment	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characterization			
☐ Unlikely ☐	Potential (presence o	two or more indicators)	Suspect (one or more indicators with a severity of 3) Dovious	ะเมร
		•		

Section 1: Bacl	kgroui	nd Data							
ેપ્bwatershed:					Outfall 1	ID: 🖓	51A-0	<u> </u>	
. oday's date:	ľ	213/11			Time (M		5051	,	
Investigators:					Form co	mpleted by:	AR		
Temperature (°F):	:		Rainf	all (in.): Last 24 hours: 0) Last 48 h	ours: 0			
Latitutde: 23	3577	298 Lo	ngitude:	0615476	GPS Un	it:		GPS LMK#	<u>.</u>
Camera: Nikon-					Photo #s	: \78	3		
Land Use in Drain	nage Are	ea (Check all that ap	ply):				,		
Industrial					☐ Oper	n Space			
Ultra-Urban R	tesidenti	al			🔲 Insti	tutional			
Suburban Resi	idential				Other: _				
☐ Commercial					Known	Industries:			
Notes (e.g, origing section 2: Out			e crabs, Mi	nnows, vegetation along ca	anal is spars	e, trash on sid	e of canal, paper	and plastic.	
LOCATION	N	MATERIA	AL	SH	APE		DIMENSI	ONS (IN.)	SUBMERGED
		PVC [] CMP	Circular Eliptical	Single Double		Diameter/Dimer	nsions:	In Water: No Partially Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple				With Sediment:
		Other:		Other:	Other:				X No ☐ Partially ☐ Fully
☐ Open drainag	e	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:		☐ Trapezoid ☐ Parabolic ☐ Other:			Depth: Top Width: Bottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		Yes Yes	□ No		p to Section	5		_	
Flow Description (If present)		1	Moderat	e Substantial					
Section 3: Qua	ntitati	ive Characteriz	ation						
				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	ETER		RESULT		U	NIT	E	QUIPMENT
∏Flow #1		Volume				L	iter		
_		Time to fill		F+ Sec			Sec		
		Flow depth					In		
□Flow #2		Flow width		**			t, In		
]	Measured length	0'	27			t, In		
		Time of travel			-		Sec		
· · · · · · · · · · · · · · · · · · ·	Tempera						°F		
	pH						Units	Те	est strip/Probe
I	Ammo	nia				-	pm		Test strip

Are Any Physical Indicators Present in the flow?	ors Present in the flow?	Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)
Odor		□ Sewage □ Rancid/sour □ Petroleum/gas □ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color		☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 Faint colors in ☐ 2 Clearly visible in ☐ 3 Clearly visible in sample bottle 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 □ 3 - Some; origin clear
Notes: Potential tidal influence due to low tide	nce due to low tide		
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both FI that are not related to	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)	on 6)
INDICATOR	CHECK if Present	nt C DESCRIPTION	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	tfall Characterization	in .	
□ Unlikely □	Potential (presence	Potential (presence of two or more indicators) Suspect (one or more indicators)	dicators with a severity of 3) Dovious

Section 1: Back	groui	nd Data							
"ubwatershed:					Outfall !	D: 🕻	51A-0°	7	
oday's date:	12	13/4			Time (M	filitary):	1645		
Investigators:		AR JW			Form co	mpleted by:	AR		
Temperature (°F):			Rainfa	all (in.): Last 24 hours: 0	Last 48 h	ours: 0			
Latitutde:	² 3s	7321 Long	itude:	0615587	GPS Un	it:		GPS LMK #:	
Camera: Nikon-					Photo #s	<u>" </u>	179		
Land Use in Drain	age Are	ea (Check all that apply	·):						
Industrial					Oper	Space			
Ultra-Urban R	esidenti	al			Insti	tutional			
☐ Suburban Resi	dential				Other: _				
☐ Commercial					Known	Industries:			
Notes (e.g, origin	n of out	fall, if known): large cr	abs, Miı	nnows, vegetation along ca	anal is spars	e, trash on si	de of canal, paper	and plastic.	
Section 2: Out					. DF		DIMENSIO	NAIC (TAL)	CURMENCED
LOCATION	4	MATERIAL C		SH/			DIMENSIO		SUBMERGED
		1	CMP	Circular	Single		Diameter/Dimen	sions:	In Water:
~ \			IDPE	☐ Eliptical	☐ Double				Partially Fully
Closed Pipe		Steel		Вох	☐ Triple				With Sediment:
· 		Other:	-	Other:	Other:				No ☐ Partially ☐ Fully
		☐ Concrete		1_					
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		Other:		☐ Other:			Bottom Width: _		
☐ In-Stream		(applicable when co	llecting	samples)					
Flow Present?		Yes	□ No		p to Section	5			
Flow Description (If present)		+1-	Moderate	. /\					
Section 3: Qua	ntitati	ive Characterizat	ion						
				FIELD DATA FOR F	LOWING	OUTFALLS		_	
P	ARAMI	ETER		RESULT		ί	INIT	EC	QUIPMENT
□Flow#1		Volume				1	Liter		
		Time to fill	۸	-2 gal /mi	n		Sec		
		Flow depth					<u>In</u>		
□Flow #2		Flow width	<u> </u>	"			Ft, In		
	1	Measured length	0'	•			Ft, In		
		Time of travel					Sec		
<u> </u>	Tempera				Ī		°F		
	pН					pH	I Units	Te	st strip/Probe
	Ammo	nia					ppm		Test strip

INDICATOR CHECK if Present		(DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)	(INDEX (1-3)
Odor	☐ Sewage	e ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 — Faint ☐ 2 — Basily detected	ccted 3 – Noticeable from a distance
Color	☐ Clear	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	□ 1 – Faint colors in □ 2 – Clearly visible in sample bottle	sible in 3 – Clearly visible in outfall flow
Turbidity		See severity	☐ 1 Slight cloudiness ☐ 2 Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐ Sewag	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	☐ 1 Few/slight; origin of origin (e.g., not obvious possible suds or oil sheen)	ications 3 - Some; origin clear g,
Notes: Potential tidal influence due to low tide	nce due to low tide			
Section 5: Physical In- Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Man (If No., Skip to Section 6)	ction 6)	
INDICATOR	CHECK if Present	DESCRIPTION	cc	COMMENTS
Outfall Damage		 □ Spalling, Cracking or Chipping □ Peeling Paint □ Corrosion 	nt	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	tfall Characterization			
Unlikely	Potential (presence of two or more indicators)		Suspect (one or more indicators with a severity of 3)	Obvious

Section 1: Back	kgrour	id Data							
"ubwatershed:					Outfall I	D:	P.	SB-E	، ۲
oday's date:		12 13 1	ıl		Time (M	ilitary):	1552	2	
Investigators:	Λ	F- TW			Form co.	mpleted by:	A		
Temperature (°F):		-	Rainfa	all (in.): Last 24 hours:	0 Last 48 h	ours: 0			
Latitutde: 2	357	1271	Longitude:	065923	GPS Uni	it:		GPS LMK #	
Camera: Nikon-					Photo #s	: 1	765		
Land Use in Drair	nage Are	a (Check all that	apply):						
Industrial					☐ Oper	Space			
Ultra-Urban R	esidenti	al			☐ Instit	utional			
Suburban Resi	idential			•	Other:	<i>(</i>			
☐ Commercial					Known 1	ndustries:			
	n of out	fall, if known): la	rge crabs. Mir	nnows, vegetation along o				and plastic.	
l totos (o.g., og.,	0. 00.	,	.50 01400, 1111	Felow			_	una prastito	
				49000	CAR		/		
Section 2: Out	fall De	scription					1		
LOCATION	V	MATER	RIAL	SH	APE		DIMENSIO	ONS (IN.)	SUBMERGED
		RCP	☐ CMP	Circular	Single		Diameter/Dimen	sions:	In Water:
		□ PVC	☐ HDPE	Eliptical	☐ Double				Partially Fully
Closed Pipe		☐ Steel		☐ Box	☐ Triple				
- 1		Other:		Other:	Other:				With Sediment:
Ì									Partially Fully
		☐ Concrete			•				
		☐ Earthen		☐ Trapezoid			Depth:		
Open drainage	e	☐ rip-rap		☐ Parabolic			Top Width:	_	
		Other:		Other:			Bottom Width: _		
☐ In-Stream		(applicable wh	en collecting	samples)					
Flow Present?		Yes	□ No		ip to Section	5	•		
Flow Description		7			. <u>, , , , , , , , , , , , , , , , , , , </u>	-			
(If present)		☐ Trickle	☐ Moderate	Substantial					
Section 3: Qua	ntitati	ive Character	rization	·					
				FIELD DATA FOR F	LOWING C	UTFALLS			
P	ARAMI	ETER		RESULT		U	INIT	E	QUIPMENT
□Flow#1		Volume		,]	Liter		
∐Fl0W#1		Time to fill		Zgal /min			Sec		
		Flow depth					In		
□Flow #2		Flow width	<u>o</u> , ,	,		I	Ft, In		
	1	Measured length	<u>0</u> ,	,,		I	Ft, In		
		Time of travel					Sec		
·	Tempera						°F		
	pH					pН	I Units	Те	st strip/Probe
	Ammo	nia					ppm		Test strip

Are Any Physical Indicators Present in the flow? Yes	ors Present in the flo	w? Yes No (If No, Skip to Section 5)	
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)
Odor	₹. □	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ 1 – Faint ☐ 2 – Easily detected ☐ 3 – Noticeable from a distance
Color	₿	Ç Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	☐ I — Faint colors in ☐ 2 — Clearly visible in ☐ 3 — Clearly visible in sample bottle 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, suds, or floating sanitary materials)
Notes: Potential tidal influence due to low tide	ence due to low tide		
Section 5: Physical Indicators for Both Flowing and Non- Are physical indicators that are not related to flow present?	dicators for Both	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)	ction 6)
INDICATOR	CHECK if Present	sent DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping	nt
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae
Abnormal Vegetation		☐ Excessive ☐ Inhibited	
Poor pool quality	·	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	en e
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:	
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ition	
🕅 Unlikely 🔲	Potential (presen	Potential (presence of two or more indicators) Suspect (one or more indicato	indicators with a severity of 3) Dovious
f			

Section 1: Bacl	kgroui	nd Data								
Subwatershed:						Outfall	ID:	P5113-	-05	
oday's date:		12 13	Н			Time (Military):	1602		
Investigators:		A2_	うか	J		Form c	ompleted by:	R		
Temperature (°F):		•	•	Rainfa	all (in.): Last 24 hou	rs: 0 Last 48	hours: 0	, ,		
Latitutde: 2	-357	272	Long	itude:	0615894	GPS U	nit:		GPS LMK #:	:
Camera: Nikon-						Photo #	ts: \7	eb		
Land Use in Drain	nage Are	ea (Check all th	at apply	/):						
Industrial						□Оре	en Space			
Ultra-Urban R	esidenti	al				☐ Inst	itutional			
Suburban Resi	idential					Other:				
☐ Commercial						Known	Industries:			
			large cr	abs, Mir	nnows, vegetation alor	ng canal is spar	se, trash on sid	e of canal, paper	and plastic.	
Section 2: Out		T	ERIAL			SHAPE		DIMENSI	ONS (IN.)	SUBMERGED
		K RCP		СМР	Circular	Single		Diameter/Dimer	sions:	In Water:
ı		t □ PVC	□ F	HDPE	☐ Eliptical	Double		18'		No □ Partially □ Fully
Closed Pipe		☐ Steel			☐ Box	☐ Triple				With Sediment:
• 		Other:		_	Other:	☐ Other:				No Partially Fully
		☐ Concrete			☐ Trapezoid			Depth;		
□ 0 i		☐ Earthen						-		
Open drainage	e	🔲 гір-гар			Parabolic			Top Width:		
		Other:			Other:			Bottom Width: _		
☐ In-Stream		(applicable v	when co	llecting	samples)					
Flow Present?		Yes		☐ No		Skip to Section	ı 5			
Flow Description (If present)		Trickle	☐ N	Moderate	Substantial					
Section 3: Qua	ntitati	ive Charact	erizat	ion	•					
					FIELD DATA FOR	R FLOWING	OUTFALLS			
P.	ARAMI	ETER			RESULT		U	NIT	EC	QUIPMENT
□Flow #1		Volume					L	iter		
□10w #1		Time to fill			1-2 gal /1	λίη		Sec		
		Flow depth			, ,			In		
│ □Flow #2		Flow width		δ, ,	••		F	t, In		
	ľ	Measured lengt	h	<u>Ö</u> , ,	**		F	t, In		
		Time of travel						Sec		
<u>-</u>	Tempera	ıture						°F		
	pН						pH	Units	Те	st strip/Probe
1	Ammo	nia					n	om		Test strip

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? Yes No Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?

Yes INO Section 6: Overall Outfall Characterization Are physical indicators that are not related to flow present? Notes: Potential tidal influence due to low tide ☐ Unlikely Floatables
-Does Not Include Abnormal Vegetation Pipe benthic growth INDICATOR Poor pool quality Outfall Damage Deposits/Stains INDICATOR Turbidity Trash!! Color Odor Potential (presence of two or more indicators) CHECK if Present **CHECK if Present** ☐ Green ☐ Clear Petroleum (oil sheen) ☐ Sulfide ☐ Sewage ☐ Sewage (Toilet Paper, etc.) ☐ Odors Oily ☐ Brown ☐ Excessive ☐ Brown Other: Orange Rancid/sour Petroleum/gas Spalling, Cracking or Chipping Corrosion ☐ Flow Line DESCRIPTION ☐ Inhibited ☐ Orange ☐ Colors ☐ Floatables ☐ Excessive Algae See severity Suds ☐ Gray Other: (If No, Skip to Section 5) Paint DESCRIPTION Suspect (one or more indicators with a severity of 3) ☐ Green ☐ Yellow □Other: (If No, Skip to Section 6) Other: Oil Sheen
Other: Peeling Paint Other: ☐ 1 – Faint colors in sample bottle ☐ 1 – Few/slight; origin not obvious \square 1 \rightarrow Slight cloudiness 1 - Faint sediment and algae **RELATIVE SEVERITY INDEX (1-3)** ☐ 2 – Some; indications 2 - Cloudy ☐ 2 -- Clearly visible in sample bottle 2 - Easily detected of origin (e.g., possible suds or oil sheen) ☐ Obvious COMMENTS 3 - Some; origin clear ☐ 3 — Clearly visible in outfall flow 3 - Noticeable from a 3 – Opaque sanitary materials) (e.g., obvious oil sheen, suds, or floating distance

Section 1: Back	grour	ıd Data									
ેપbwatershed:						Outfall	D:		C-0	_	
oday's date:	12	13 4				Time (N	lilitary):	1	V 102		
Investigators:		AL -	SM			Form co	mpleted by		<u>r</u>		
Temperature (°F):					all (in.): Last 24 hours: (0 Last 48 l	ours: 0			_	
Latitutde: $\mathcal U$	351	236	Longi	itude:	016109	GPS Un	it:			GPS LMK #	t:
Camera: Nikon-						Photo #	<u>" \'7</u>	45			
Land Use in Drair	nage Are	a (Check all t	hat apply	'):							
Industrial						□ Оре	n Space				
Ultra-Urban R	esidenti	al				☐ Insti	tutional				
Suburban Resi	idential					Other: _					
☐ Commercial						Known	Industries:				
Notes (e.g, origin	n of outi	fall, if known)	: large cr	abs, Mir	nnows, vegetation along c	anal is spars	e, trash on :	side of ca	nal, paper	and plastic.	
Section 2: Out											
LOCATION	N		TERIAL			APE		D	IMENSI	ONS (IN.)	SUBMERGED
		RCP		CMP	(Circular	Single			eter/Dime	nsions:	In Water:
		□ PVC	□ F	IDPE	☐ Eliptical	☐ Double		<u> </u>	, ₍		Partially Fully
Closed Pipe		Steel			☐ Box	☐ Triple					
•		Other:		_	☐ Other:	Other:					With Sediment:
											☐ Partially ☐ Fully
		☐ Concrete	:								
		☐ Earthen			☐ Trapezoid			Depth	:		
Open drainage	e	☐ rip-rap			☐ Parabolic			Top V	Vidth:		
		Other:			☐ Other:			Botto	m Width:		
☐ In-Stream		(applicable	<u></u>	1142							
Flow Present?			when co	□ No		ip to Section	<u> </u>				
		Yes Yes			IJ 140, SKI		<u> </u>				
Flow Description (If present)		Trickle		Moderate	Substantial	drip	Sei	and			
Section 3: Qua	nditati	ivo Choros	tonizat	ion							
Section 5: Qua	шиаи	ve Charac	terizat	1011	FIELD DATA FOR F	LOWING	NITFALL C				
P	ARAMI			I	RESULT			UNIT		F	QUIPMENT
•		Volume			1,100			Liter		_	
☐Flow #1		Time to fill						Sec			
		Flow depth						In			
_		Flow width		<u>o</u> , ,	,,			Ft, In			
□Flow #2	ı	Measured leng	 gth	<u>0</u> , ,	•			Ft, In			
		Time of trave	el					Sec			
-	Гетрега	ture						°F			
	pН						p	H Units		Т	est strip/Probe
	Ammo	nia						ppm			Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ors Present in the fl	Fing Outfalls Only $y = y + y = y + y = y + y = y = y + y = y =$		
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)	(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 ☐ 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)
Notes: Potential tidal influence due to low tide	ence due to low tide			
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Both	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)	ction 6)	
INDICATOR	CHECK if Present	esent DESCRIPTION	COMMENTS	<i>'</i> S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	int	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen☐ Suds ☐ Excessive Algae ☐ Other:	en	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	ıtfall Characteriz	ation		
Unlikely 🛚	Potential (prese	two or more indicators)	Suspect (one or more indicators with a severity of 3)	

OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Bacl	kgrour	ıd Data							
Subwatershed:					Outfall	ID:	752-0	3	
.oday's date:		12/13	11)		Time (l	Military):			
Investigators:		九丁	کن		Form c	ompleted by:	AR		· · · · · · · · · · · · · · · · · · ·
Temperature (°F):	:	_	Rainf	fall (in.): Last 24 hours: 0) Last 48	hours: 0			
Latitutde:		L	ongitude:		GPS U	nit:		GPS LMK #	:
Camera: Nikon-					Photo #	/s: \	155	•	
Land Use in Drain	nage Are	ea (Check all that ap	ply):						
ndustrial					□ Оре	en Space			
Ultra-Urban R	tesidenti	al			☐ Inst	itutional			
Suburban Res	idential				Other:				
☐ Commercial					Known	Industries:			
Notes (e.g., origi	n of outi	fall, if known): larg	e crabs. Mi	nnows, vegetation along ca					
		, 8	,			,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F	
Section 2: Out		scription							7
LOCATION	N	MATERI			APE		DIMENSI	ONS (IN.)	SUBMERGED
		□ RCP [☐ CMP	Circular	Single		Diameter/Dimer		In Water:
		PVC [HDPE	☐ Eliptical	Double	3	12		Partially
Closed Pipe		Steel		☐ Box	☐ Triple				☐ Fully
		Other:		Other:	Other:				With Sediment:
									Partially Fully
		Concrete							
				☐ Trapezoid			Depth:		
☐ Open drainage			Parabolic		Top Width:		<u> </u>		
☐ rip-rap			Other:		Bottom Width:				
_		Other:							
☐ In-Stream		(applicable when							
Flow Present?		Yes	□ No	If No, Ski	p to Section	:5			
Flow Description (If present)		Trickle [Moderate	e Substantial	2	drops /	sec		
Section 3: Qua	ntitati	ive Characteriz	zation						
*				FIELD DATA FOR F	LOWING	OUTFALLS			
P	ARAMI	ETER		RESULT		l	JNIT	EC	QUIPMENT
Пр. #4		Volume					Liter		
☐Flow #1		Time to fill					Sec		
		Flow depth					In		
□ III #0		Flow width	0,	,,			Ft, In		
☐Flow #2	1	Measured length	0,	11		7	Ft, In		
		Time of travel					Sec		
	Tempera	iture					°F		
	pН					pł	I Units	Те	st strip/Probe
	Ammo						nom		Test strin

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Yes	dicators for Flow ors Present in the flo	$\begin{array}{ccc} \mathbf{ng Outfalls Only} \\ ? & \square & \mathbf{Yes} & \mathbf{E} \\ & & & & & & & & & & \\ \hline & & & & & & &$			
INDICATOR	CHECK if Present	DESCRI	RELATIV	RELATIVE SEVERITY INDEX (1-3)	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 san	☐ 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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	dicators for Both that are not relate	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? $X Y Y = X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y $	ection 6)		
INDICATOR	CHECK if Present	sent DESCRIPTION		COMMENTS	J.
Outfall Damage		Spalling, Cracking or Chipping	únt		
Deposits/Stains	1	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	gae discolation	b ^c on
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	cen		
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Characteriza	tion			
Unlikely 🔲	Potential (presen	Potential (presence of two or more indicators) Suspect (one or more	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: Back	grout	ng Data							
ubwatershed:					Outfall ID:	6	53-01		
.oday's date:	W	-13 N			Time (Milit	ary):	134		
Investigators:	h	LTW			Form comp	leted by:			
Temperature (°F):	`	· 	Rainfa	all (in.): Last 24 hours: 0	Last 48 hour	rs: 0			
Latitutde:		L	ongitude:		GPS Unit:			GPS LMK #:	<u> </u>
Camera: Nikon-			_		Photo #s:	1749	<u>g. </u>		
Land Use in Drain	nage Are	ea (Check all that ap	oply):			•			
Industrial					Open Sp	pace			
Ultra-Urban R	esidenti	al			☐ Institution	onal			
☐ Suburban Resi	idential				Other:				
☐ Commercial					Known Inde	ustries:			
Notes (e.g, origin	n of outi	fall, if known): larg	e crabs, Mir	nnows, vegetation along ca	anal is sparse, tr	rash on side o	of canal, paper	and plastic.	
Section 2: Out		T .							1
LOCATION	4	MATERI		SHA			DIMENSIO		SUBMERGED
		EXCP [CMP	Circular	Single	Di	ameter/Dimen	sions:	In Water:
		□ PVC [HDPE	☐ Eliptical	☐ Double	-	12"		☐ Partially ☐ Fully
Closed Pipe		☐ Steel		☐ Box	Triple				With Şediment:
Other: Other:		☐ Other:	Other:	_			No Partially Fully		
☐ Concrete		_							
☐ Earthen			☐ Trapezoid			epth:			
Open drainage	е	☐ rip-rap		☐ Parabolic		To	p Width:	_	
		☐ Other:		☐ Other:		В	ottom Width: _		
☐ In-Stream		(applicable when	collecting	samples)					
Flow Present?		Yes	□ No		p to Section 5				
Flow Description (If present)		i i	Moderate						
Section 3: Qua	ntitati	ive Characteria	zation						
Section of Qua			2441011	FIELD DATA FOR F	LOWING OUT	TFALLS			
P.	ARAMI	ETER	ı	RESULT		UNI	т	EC	QUIPMENT
——————————————————————————————————————		Volume				Lite	r		
□Flow#1		Time to fill	ر ا	1-97 / 20 sec	,	Sec			
		Flow depth		1, (,		In			
□Flow #2		Flow width	0,			Ft, I	п		
]	Measured length	0,	***		Ft, I	n		
		Time of travel				Sec			
,	Tempera					°F			
	pН					pH Ur	nits	Те	st strip/Probe
	Ammo	nia				ppn	ı		Test strip

Outfall Reconnaissance Inventory Form

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	ors Present in the flow?	Uttalls Only (If No, Skip to Section 5)		
INDICATOR	CHECK if Present	DESCRI	RELATIVE SEVERITY INDEX (1-3)	DEX (1-3)
Odor		□ Sewage □ Rancid/sour □ Petroleum/gas □ Other:	☐ 1 — Faint ☐ 2 — Easily detected	3 – Noticeable from a distance
Color	<u> </u>	□ Clear □ Brown □ Gray □ Yellow □ Green □ Orange □ Red □ Other:	☐ 1 – Faint colors in ☐ 2 – Clearly visible in sample bottle sample bottle	in 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)	ons 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floatin sanitary materials)
Notes: Potential tidal influence due to low tide	nce due to low tide			
Section 5: Physical Indicators for Both Flowing and No. Are physical indicators that are not related to flow present?	dicators for Both Flus that are not related to	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)	ection 6)	
INDICATOR	CHECK if Present	nt (DESCRIPTION	COMP	COMMENTS
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	aint	
Deposits/Stains		☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited		
Poor pool quality	. 🗆	☐ Odors ☐ Colors ☐ Hoatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	icen	
Pipe benthic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:		
Section 6: Overall Outfall Characterization	rfall Characterizatio	n		
Unlikely	Potential (presence	two or more indicators)	Suspect (one or more indicators with a severity of 3)	us .
\				

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

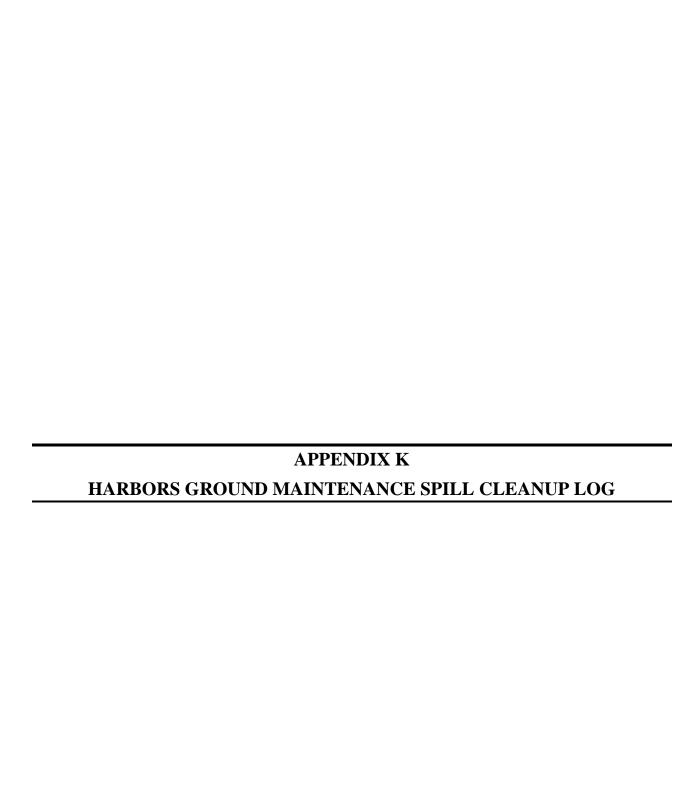
OUTFALL RECONNAISSANCE INVENTORY FORM

Section 1: Back	ground Data						
[?] ubwatershed:				Outfall ID:	P52-	3-	>53-3
oday's date:	12 13	U		Time (Military):	1445		
Investigators:	AL.	JW .		Form completed	by: A2		
Temperature (°F):		Rainf	all (in.): Last 24 hours: 0	Last 48 hours: 0			
Latitutde:		Longitude:		GP\$ Unit:		GPS LMK#	:
Camera: Nikon-				Photo #s:	1752		
Land Use in Drain	age Area (Check all t	hat apply):					
ndustrial				Open Space			
Ultra-Urban Re	esidential			☐ Institutional			
Suburban Resid	dential			Other:			
☐ Commercial				Known Industries	s:		
Notes (e.g, origin		: large crabs, Mi	nnows, vegetation along ca	anal is sparse, trash o	n side of canal, paper	and plastic.	
LOCATION		TERIAL	SH	APE	DIMENSIO	ONS (IN.)	SUBMERGED
	☐ RCP	□СМР	Circular	Single	Diameter/Dimer	sions;	In Water:
	* XI PVC	☐ HDPE	Eliptical	Double	[24		☐ No ☐ Partially
Closed Pipe			☐ Box	☐ Triple			☐ Fully
Other:			☐ Other:	☐ Other:			With Sediment:
							☐ Partially ☐ Fully
	☐ Concrete						
_	☐ Earthen		☐ Trapezoid		Depth:		
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:		
	Other:		☐ Other:		Bottom Width: _		
☐ In-Stream		when collecting	samples)				
Flow Present?	Yes			p to Section 5			
Flow Description (If present)	7 ☐ Trickle	Moderat					
Section 3: Quai	ntitative Charac	terization					
D0000011 21 2	101000010		FIELD DATA FOR FI	LOWING OUTFAL	LS		
P#	ARAMETER		RESULT		UNIT	E	QUIPMENT
	Volume				Liter		<u>-</u>
□Flow#1	Time to fill		9 1at / 30	4CC	Sec		
	Flow depth		· · · · · · · · · · · · · · · · · · ·	7- -	In		
□Flow #2	Flow width	<u>0</u> '	"		Ft, In		
LIFIOW #2	Measured leng	th <u>0</u> '	,,		Ft, In		
	Time of trave	1			Sec		
Т	`emperature				°F		
	рН				pH Units	Te	st strip/Probe
	Ammonia				ppm		Test strip

Outfall Reconnaissance Inventory Form

INDICATOR CHECK if Present	CHECK if Present	DESCRIPTION	70	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor	☐ Sewage	ge □ Rancid/sour □ Petroleum/gas le □ Other:	☐ 1 – Faint	2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐ Clear	☐ Brown ☐ Gray ☐ Yellow ☐ 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!!	□ Sewa	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)
Notes: Potential tidal influence due to low tide	nce due to low tide				
Section 5: Physical In Are physical indicators	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	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)	tion 6)		
INDICATOR	CHECK if Present	DESCRIPTION		COMMENTS	S
Outfall Damage		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion			
Deposits/Stains	×	□Oily □Flow Line □Paint □Other:	Discolumber sedimen	sediment and algae	
Abnormal Vegetation		☐ Excessive ☐ Inhibited			
Poor pool quality	:	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	n		/
Pipe benithic growth		☐ Brown ☐ Orange ☐ Green ☐ Other:			
Section 6: Overall Ou	Section 6: Overall Outfall Characterization				
Unlikely	Potential (presence of two or more indicators)	o or more indicators) Suspect (one or more indicators with a severity of 3)	ndicators with a severity	y of 3) Dovious	

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



JANUAUT 2011

MONTHLY SPILL LOG

Date	Moterial Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)		Describe Clean-up Method, Disposal, and Group and Individue's Involved
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				A contract to a contract the other		
***************************************				- July to the second second second	* The Stand is may not up a *	
					110000000000000000000000000000000000000	. •
]			Was all all and collective to the second colle

NO OIL SPILLS FOR JANUARY 2011 DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR OF HAR?OCG DOT/HARBOR DIVISION/STATE OF HAWAII

Onte	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 Individue's Involved
				•		
en de serviciones como energo como		Variable of the Control of the Contr	- AND - 4 4 5 - AN ADM AND AND ADM AND AN ADM AND AND ADM A		and the second section of the second section section section sections.	
	Value					
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	- FARMING CO.					
dy gang of a second process of confidence of		ا ن ن الأساد الدارات الذي اللها الذي الدارات الذي الدارات الد		aga para and a summarium for face a sum armore		33 00 00, 11 00
· · · · · · · · · · · · · · · · · · ·	- Vision We have a substant of the substant of	**************************************			n of	The state of the s

MANEH 2011

		10101	VIIILI OI	1 100 100 100 100 100		
Date	Material Spilled	Quantify	Responsible Person(s)	Ocean?	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and y Individuals Involved
3/23/201	l oil	1/2 gallon	unkown	no		pier 37 time;7:35am spill coming from refuse container.cleaned spill with
			Limit & Things & Child and support and an old and an old and an old an o			oil pads,4-u degreaser & oil dust.clean up crew mac,ken, nelson(refuse crew).
				may ample of the state of the state of the state of	-	
				Management of the second of the second of		
			1			

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II OF DOT/HARBOR DIVISION /OCG STATE OF HAWAII

April 2011

MONTHLY SPILL LOG

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)		Describe Clean-up Method, Disposal, and Group and Individuals Involved
an man an		# 1				
aden helv deurderlevelt kelem		A A A A A A A A A A A A A A A A A A A				
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			1			
			The state of the s	and all the seconds of	A harmonia Pure sum compatible	

NO SPILLS : FOR THE MONTH OF APRIL 100 11

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II

DEPARTMENTOOF TRANSPORTATION

HARBOR DIVISION STATE OF HAWAII

SANITATION AND GROUNDS UNITS

may 2011

Date	Moterial Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (YN)	ዘ Yes,	Describe Clean-up Method, Disposal, and Group and Individuats Involved
		n d dd rown on fi a'r mwys		,	t of the Boundary State	
1	teads to reflected to furnishment also make the large size to a brightness of the brightness to be the constitution of				v myrenema savam minaurosis (
				with a shareful of Affiliat and with the same and		
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			The plants will be a property of the party o	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
					<u></u>	

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individue's Involved
6/8/201	1 OIL	1/2 gl	. unkown	no		PARK GANG LABOR CREW CLEMNED OIL SPILL THAT WASDDISCOVERD COMING OUT OF REFUSE CONTAINE
5/22/20	ll paint .	II4 gl	. unkown	00		UESD 4-U DEGREASER, WATER, OIL PADS & DUST ABSORBENT. PHERPSE.GANG
6/22/20	_	1/4 gallon	unkown	no		sweeper crew cleaned paint sp at pier 18 with 4-u degreaser water,pads & oil dust.
			·			
	·			magas apama in agus interior agus pagas agus agus agus agus agus agus agus		
			<u> </u>			
an arms, or						
a same or the self-handle shown in the same or the self-handle shown in the same or the self-handle shown in the self-han				white to the factor of a section of		

Date	Moterial Spilled		Responsible Person(s)	Ocean? (Y/N)	 Describe Clean-up Method, Disposal, and Group and Individue's Involved
7/5/11	OIL MIX WITH WATER	6*x3'	UNKNOWN	NO	OIL & WATER MIX WAS FOUND UNDER REFUSE CONTAINER AT PIER 37 . REFUSE CREW NOTIFIED SUPERVISOR AND PROCEEDED TO CLEAN THE SPILL. REFUSE CREW AND THE GENERAL LABOR CREW WHO MET THE REFUSE CREW CLEANDE PIER 37 USED 1 1/2 GALLONS OF DEGREASER WITH WATER, 24 OIL PADS AND 1/2 BAG OF OIL SPONGE. SPILL WAS REPORTED AT 0652 HRS AND AREA WAS SECURED AT 0719 HOURS
7/5/11	OIL SPILL	1'x1'	UNKNOWN	NO	OIL WAS FOUND ON THE GROUND NEXT TO A REFUSE CONTAINER AT PIER 36. LABORERS NOTIFIED SUPERVISOR AND PROCEEDED TO CLEAN THE AREA. LABOR CREW USED 3 OIL PADS, 1/4 GALLON DEGREASER WITH WATER AND 1/6 OF A BAG OF OIL SPONGE SPILL WAS REPORTED AT 0650 AND AREA WAS SECURED AT 0700 HOURS
7/27/20	ll oil spill	1/2 glln	unkown	no	labor crew report pier 36 time 12;15pm oil coming out from benneth refuse contain cleaned spill with 4u degrewater oil pads & oil dust absorbent.

Don Kauleinamoku MAINTENANCE AND REPAIR SUPERVISOR FOR THE MONTH OF JULY 2011 STATE OF HAWAII/DOT/HARBOR DIVISION/SANITATION AND GROUND UNITS

	(PERM)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	
Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes,	Describe Clean-up Method, Disposal, and Group and Individue's Involved
8/15/01	oil	lģúart	HSI STEVEDORE	N		on 8/15/2011 at 9:10 am labor cleaned oil spill at pier 2 makai shed possible came from forklift.materials used:4-u degreaser,water,oil pads;dust absorbent.
AND THE PROPERTY OF STREET		***************************************				
and the final temperature and temperature						

DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II FOR THE MONTH OF AUGUST 2011 STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/SANITATION AND GROUND UNITS

SEPTEMBER 2011

MONTHLY SPILL LOG

Date	Material Spilled	Quantify	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individue's Involved	
9/1/201	l oil	1/4qrt	• unkown	no		REFUSE CREW REPORT PIER 37 time 7:41am WITH 4U DEGREASER, WA DUSTABSORBENT.	.cLEANED SI
A				n is in the second of the second in the seco			_
			\\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{				
							_
			TO THE RESIDENCE AND A SECURE ASSESSMENT AS A SECURE ASSESSMENT AS A SECURE AS		į		

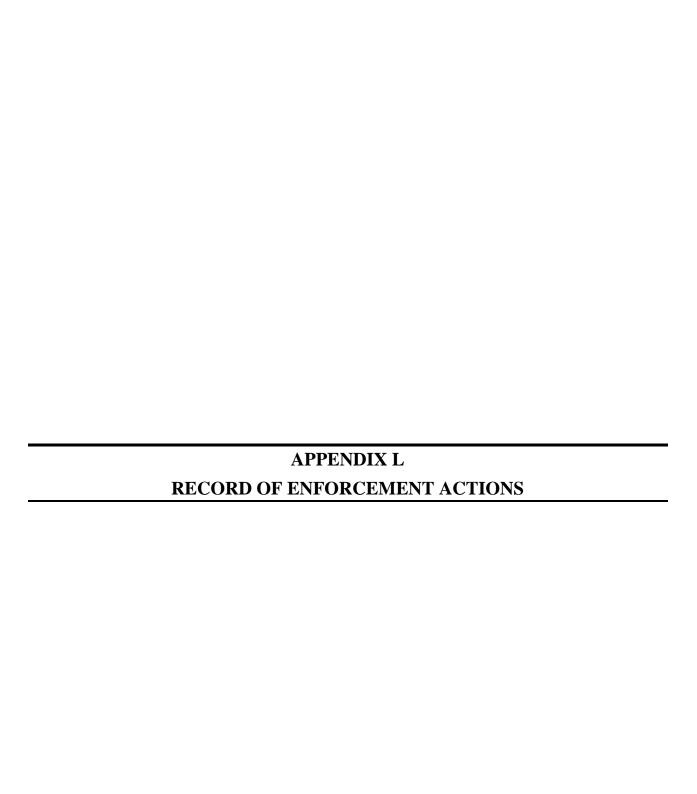
DON KAULEINAMOKU MAINTENANCE AND REPAIR SUPERVISOR II FOR THE MONTH OF SEPTEMBER 2011 STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/SANITATION AND GROUND UNITS

Date 10/14/1	Material Spilled	Quantity 1/4 Qi	Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individue's Involved Crew report oil spil at pier 18 11:54am.c pads,4-u,water,dust. from refuse containe	leaned with oil came Fro
10/31/2	011 uńknown	2 bag	s oil absorbo	ent No		7;30am pier 10 shed sweeped up oil granu ground left over from ship.	labor crew els from
		,					

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)	If Yes, Identify	Describe Clean-up Method, Disposal, and Group and Individue's Involved
11/16	oil	1/2gl	unkown	no		pier 36 oil contaiment cente at 6:45am labor crew report oil comming from underside of cont.center.cleaned with 4-u
						water, powder & pads.
					- Advis with reconstruction at the	

DON KAULEINAMOKU -MAINTENANCE AND REPAIR SUPERVISOR II FOR THE MONTH OF NOVEMBER 2011 STATE OF HAWAII/DEPARTMENT OF TRANSPORTATION/HARBOR DIVISION/SANITATION AND GROUND UNIT

Date	Material Spilled	Quantity	Responsible Person(s)	Discharge to Storm Drain or Ocean? (Y/N)		Describe Clean-up Method, Disposal, and Group and Individue's Involved
		Annual State				
	1					
Julian S.F. (Printed Printed of School		and the second are she is the second	:	And and the state of the Samuelous Congress of	N camp may to the factor of the property page to the	
			1			
				in announce has find agreemen		



December 29, 2011

Mr. James Cook, Vice President POP Fishing & Marine, LLC 1133 North Nimitz Highway Honolulu, Hawaii 96817

Dear Mr. Cook: JIM

Subject: Potential Illicit Discharge at a Fishing Village Storm Drain

On December 16, 2011, at about noon and during dry weather conditions, it was observed that turbid water was flowing from a storm drain outlet into harbor waters causing a plume. When asked about the discharge, you replied that one of your contractors for the modifications to the Multi-User Building at the Fishing Village was washing down a paved surface with water.

This is to remind you that the Fishing Village storm drainage system is regulated under the Honolulu Harbor Small MS4 permit and the construction activities at the Fishing Village are regulated by the requirements of an NPDES general permit. The use of the storm drainage system to transport wash water and discharge it into harbor waters is a potential violation of both permits and could subject the operators and owners under those permits to administrative and/or criminal fines.

Please remind your contractor(s) to avoid clean-up methods using water and to use only dry clean-up methods that do not introduce flows into storm drainage systems.

Thank you for your cooperation in this matter. If you have any questions, please call me at 587-3651.

Sincerely,

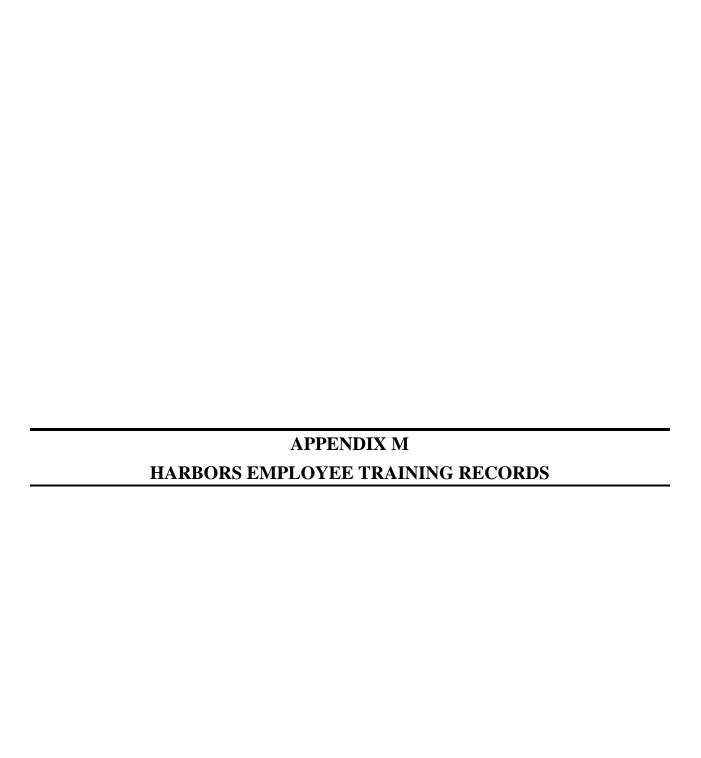
RANDY GRUNE

Deputy Director, Department of Transportation

Harbors Division

bc: DEP-P, HAR, HAR-O, HAR-PM

RL:lm



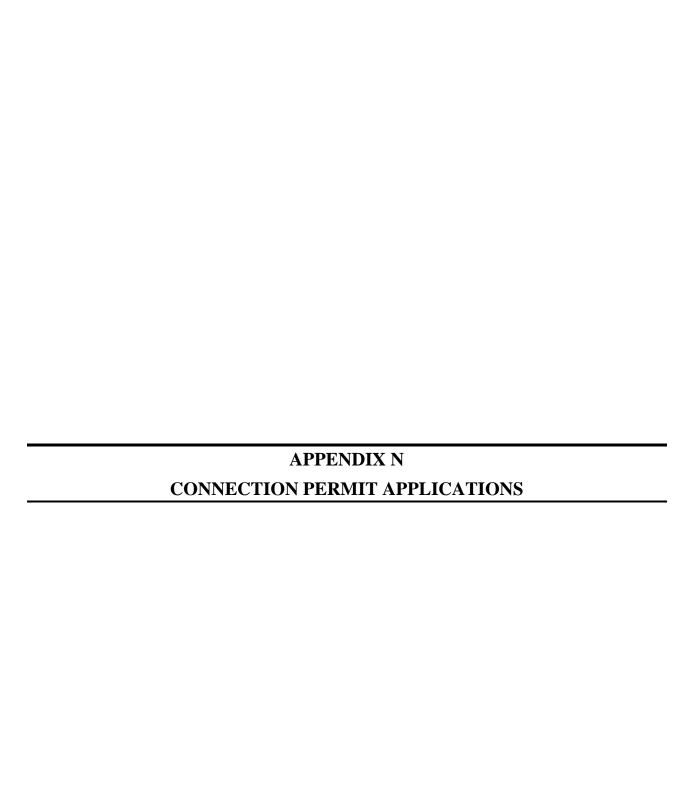
Weston Solutions, Inc Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

HDOT HARBORS STORMWATER GENERAL AWARENESS EMPLOYEE TRAINING MAY 27, 2011



SIGN-IN SHEET

AFFILIATION	PRINT NAME	SIGNATURE	VOI VOI	VOLUNTEER FOR CLEAN-UP?
Weston of III Horrors	Milk Ambler	ARRIVATION OF THE PARTY OF THE	PACK, amble / Dwestonsolutions.com	×
Stute of Ni KARbons	Tommy Medeinus	MARK	Thomas, p. Medeinos e hawais, 500	
SOUTHARDORS	Bill Dally	JEMP Waris	ravier cy asing Mg	
Out Harthors	Rey AMERI	Million	lay Mujay a pantais gar	
	JOHN 102F	W. P. Protect	John lost Chanai gur	
DON HARBORY - SEWITY	DAVIO LEE		DAVID. L. LEED HAWAII GOV	
DOT HARBORS-PM	ERIC CEONG		eric, leong Whawaii , 301	301



HAR-EE 0734.11

April 18, 2011

Mr. Wynn Miyamoto Fukunaga & Associates, Inc. 1357 Kapiolani Boulevard, Suite 1530 Honolulu, Hawaii 96814

Dear Mr. Miyamoto:

Subject: Permit to Discharge into Honolulu Harbor Storm Drainage System
Ala Moana Force Main No. 3 and No. 4, Harbors ID No. HH-02-U001

Please find attached an approved permit to discharge into the Harbors Division storm drainage system from Shaft AM No. 1 and Shaft AM No. 2 sites. In addition to the terms mentioned on the permit, please note the following:

- In addition to a copy of the NPDES permit for the project, please provide us with the approved Site-Specific BMP plan for the portion of the project on Harbors Division property.
- 2. As our Storm Water Management Plan calls for BMP inspections of construction sites, please return the attached Permit with the construction start date and a point of contact to arrange for the inspections. We intend to inspect the installed BMP prior to the start of construction and on a regular basis thereafter.

If there are any questions, please contact Mr. Randal Leong of our Harbors Division Engineering Environmental Section at 587-1962.

Very truly yours,

Carter W. S. Luke, P. E.

Engineering Program Manager

Att.

bc: HAR-PM, HAR-O

RL:lm

Harbors I.D. No.: <u>HH-02-U00</u>1 (for office use)

Harbor. Honolulu (NPDES)

NPDES File No.		
	(DOH)	

PERMIT TO DISCHARGE INTO THE STATE HARBORS DRAINAGE SYSTEM

Pur	suant to Hawaii Adn	ninistrative Rules, Chapter 11-55, appl	lication is hereby made to discharge into the State	
Har	bors drainage systen	at the location(s) specified below and	d at no other place.	
1.	Name of Harbor:	Honolulu Harbor		
2.	Tax Map Key:	2-1-15:09		
3.	Location 1) Trench drain on Ilalo Street, 2) Drain inlet at Fort Armstrong			
4.	Type of Discharge	(check one):		
	[] Storm water as	sociated with industrial activities	[] Construction activity dewatering	
		ssociated with construction activities	Hydrotesting	
	Others (Descri	ne)·		

Licensee*, the undersigned, hereby agree to the following:

- 1. That Licensee shall indemnify and hold the State free and harmless from all suits and actions resulting from the licensee's discharge operations.
- 2. That Licensee shall provide appropriate best management practices and/or treatment devices for the removal of soil particles, and/orother pollutant(s) in the discharge, and such discharge shall meet the basic water quality criteria applicable to all waters, as identified in Section 11-54-04, and any other applicable sections in Chapter 11-54, Hawaii Administrative Rules, at the point of discharge into State waters.
- 3. That Licensee shall obtain National Pollutant Discharge Elimination System (NPDES) permit/permit coverage as required by the State Department of Health and submit a copy to the State Department of Transportation Harbors Division.
- 4. That a copy of any effluent monitoring required by the NPDES permit shall be furnished to the State Department of Transportation Harbors Division.
- 5. That the Licensee shall make all restorations to any State Harbors property damaged during the Licensee's discharge operations in accordance with the State Department of Transportation Harbors Division requirements.
- 6. That Licensee shall discontinue the discharge should the State Department of Health determine that the receiving waters are being polluted, or the discharge does not meet the effluent requirements of the NPDES permit, or the Licensee's operations are not in the best interest of the general public. In addition, the Licensee shall be liable for any and all penalties as a result of discharges from the Licensee's system.
- 7. That if the State Department of Transportation Harbors Division determines that any materials or substances from the Licensee's discharge operations have settled into any storm sewer, Licensee shall immediately remove and clear any material and substance to the satisfaction of the State Department of Transportation Harbors Division.
- 8. That Licensee shall inspect and clean the State Harbors drainage system prior to discharging.

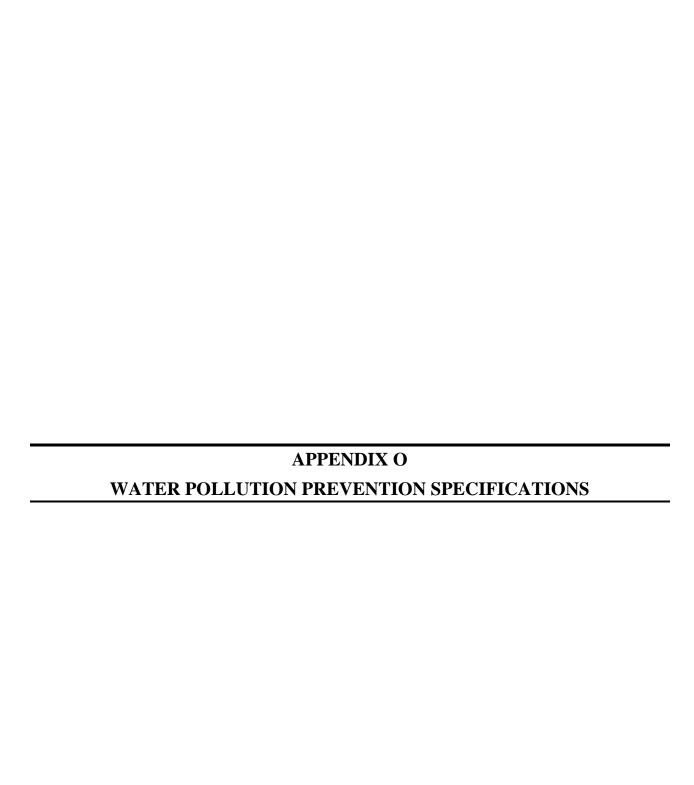
Environmental

9. That Licensee shall notify the Harbors Engineering Program Manager or Maintenance Engineer at least 24 hours before commencing discharge and at the conclusion of the discharge operation to arrange for necessary inspectional services at telephone number 587-1860 or 587-1877.

10. The Licensee shall require this permit to be a part of the contract with the contractor.

	Signature of L	icensee HB 4	<u>-</u>	<i>alalu</i> Date
-fe)	Collins Lam, Print Name and			
	City and Coun Company Nam		artment of	Design and Construction
	650 South Kin Company Add	g Street, 11 th Floor ress		
	Honolulu, HI 9 City, State, Zip			
	808-768-8480 Telephone No.			
	808-768-4567 Fax No.			
APPROVED:				
01	4/5/4			
Engineering Program Manager	Date		CONST	RUCTION DATA
		Work Started:		
		Work Completed:		
		Inspector:		

*Licensee shall be the owner or authorized representative of the owner applying for the permit. Attach: Drain Connection Plans (3 sets)



ARTICLE XXX – TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

XXX.XX Description. This section is required for all work and describes the following:

- (A) A detailed site-specific Best Management Practices (BMP) Plan including diagrams and narratives; constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site including local material sources, work areas and access roads; removing and disposing of wastes and hazardous wastes; and control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion). For projects that require a National Pollutant Discharge Elimination System (NPDES) Appendix C General Permit from the Department of Health (DOH), the Site-Specific Construction Best Management Practices (SSCBMP) Plan required for the permit shall satisfy this requirement.
- **(B)** Compliance with applicable State and Federal permit conditions.
- (C) Work associated with dewatering and hydrotesting activities and compliance with conditions of the NPDES general permit coverage authorizing discharges associated with construction activity dewatering and hydrotesting.

Requirements of this section also apply to the Contractor's storage sites.

XXX.XX Materials. Materials shall conform to the following:

- (A) Slope Drains. Slope drains may be constructed of pipe, fiber, mats, erosion control fabric, geotextiles, rubble, portland cement concrete, bituminous concrete, plastic sheets, or other materials acceptable to the Engineer.
- **(B) Grass.** Grass shall be quick growing species such as rye grass, Italian grass, or cereal grasses. Grass shall be suitable to the area and provide a temporary cover that will not compete later with permanent cover. Alternative grasses are allowable if acceptable to the Engineer.
- **(C) Fertilizer and Soil Conditions.** Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Engineer.
- (**D**) **Silt Fences.** Silt fences shall be synthetic filter fabric mounted on posts and embedded in compacted ground in accordance with contract documents, and shall be in compliance with ASTM D6462, Standard Practice for Silt Fence Installation.

(E) Berms. Berms shall be gravel or sand wrapped with geotextile material. Alternate materials are allowable if acceptable to the Engineer.

Alternate materials or methods to control, prevent, remove and dispose of pollution are allowable if acceptable to the Engineer.

XXX.XX Construction.

- (A) Preconstruction Requirements.
 - (1) Water Pollution, Dust, and Erosion Control Meeting. The contractor shall be required to submit a site-specific BMP plan to the Engineer and address all comments by the Engineer. After the site-specific BMP plan is accepted in writing by the Engineer, the Contractor shall schedule a meeting with the Engineer 14 days before the start of construction work to discuss the sequence of work, and plans and proposals for water pollution, dust, and erosion control.
 - (2) Water Pollution, Dust, and Erosion Control Submittals. The Contractor shall submit the following site-specific BMP plan for approval by the Engineer prior to the start of work:
 - (a) Written site-specific BMP plan shall include the following:
 - **1.** Identification of potential pollutants and their sources.
 - **2.** A list of all material and heavy equipment to be used during construction.
 - **3.** Descriptions of the methods and devices used to minimize the discharge of pollutants into State waters and drainage systems.
 - **4.** Description of maintenance and subsequent removal of any erosion or siltation control devices
 - **5.** Method(s) of removal and disposal of solid and hazardous wastes encountered or generated during construction.
 - **6.** Method(s) of removing and disposing concrete and asphalt pavement cutting slurry, concrete curing water, and hydrodemolition water.

- 7. Method(s) of containing, removing and disposing of demolition dust and debris to minimize the discharge of pollutants into State waters and drainage systems.
- **8.** Spill kit contents and location.
- **9.** Fugitive dust control, including dust from grinding, sweeping, or brooming off operations or combination thereof.
- **10.** Method(s) of storing and handling of hazardous materials (i.e. oils, paints, etc.) and other products used for the project.
- **11.** Method(s) of concrete washout/waste control.
- **12.** Good housekeeping practices.
 - **a.** Minimize tracking of sediment offsite from project entrances and exits.
 - **b.** Litter management.
- **13.** Other factors that may cause water pollution, dust and erosion.
- **(b)** Provide plan(s)/drawing(s) showing location of:
 - **1.** Water pollution, dust and erosion control devices.
 - **2.** Material storage and handling areas, and other staging areas.
 - **3.** Storage of aggregate (indicate types of aggregate), asphalt cold mix, soil and waste.
 - **4.** Concrete truck washouts.
 - **5.** Toilet facilities.
 - **6.** Fueling and maintenance of vehicles and other equipment.
 - 7. Areas of soil disturbance in cut and fill.
 - **8.** Areas of vegetative practices to be implemented.

- **9.** Drainage patterns; including a separate drawing for each phase of construction that alters drainage patterns.
- (c) Provide details of BMP to be installed or utilized.
- (d) Indicate approximate date when BMP will be installed and removed.
- (e) Construction schedule.
- (f) Name(s) of specific individual(s) designated responsible for water pollution, dust and erosion controls on the project site. Include home, business and cellular telephone numbers, fax numbers and e-mail addresses.
- (g) Description of fill material to be used.

The Contractor shall date and sign the site-specific BMP plan. Keep an accepted copy on site throughout the duration of the project. Revisions to the plan shall be included with the original plan. Modify contract documents to conform to revisions. Include actual date of installation and removal of BMP. Obtain written acceptance by the Engineer before revising BMP.

The Contractor shall follow guidelines in the "Best Management Practices Manual for Construction Sites in Honolulu," in developing, installing, and maintaining BMP for the project. Follow City and County of Honolulu Soil Erosion Guidelines for all projects on Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii County projects. Information can be found at the respective County websites.

(B) Construction Requirements. No work shall be allowed to begin until submittals detailed in Subsection XXX.XX(A)(2) – Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

For projects that require an NPDES Appendix C General Permit from the DOH, furnish and install a rain gage in a secure location to monitor rainfall at the project site. Provide the rain gage with a tolerance of at least 0.05 inches of rainfall, and an opening of at least 1-inch diameter. Install rain gage on project site in an area that will not deter rainfall from entering the gage opening. Maintain the rain gage and replace the gage if stolen, it does not function properly or accurately, is worn out, or needs to be relocated. Do not begin field work until the rain gage is installed and the site-specific BMP are in place.

Address all comments received from the Engineer.

Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

BMP shall be in place and operational at the end of the workday.

Install and maintain either or both stabilized construction entrances and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other material tracked onto the road immediately. Modify stabilized construction entrances to prevent mud from being tracked onto roadways.

Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Engineer.

Cover exposed surface of materials completely with tarpaulin or similar device when transporting aggregate, soil, excavated material or material that may be a source of fugitive dust.

Cleanup and remove any pollutant that can be attributed to the Contractor.

Install or modify BMP due to change in the Contractor's means and methods, or for omitted condition that should have been allowed for in the accepted site-specific BMP plan or a BMP that replaces an accepted site-specific BMP that is not satisfactorily performing.

Properly maintain BMP. For projects that require an NPDES Appendix C General Permit from the DOH, inspect, prepare a written report and make repairs to BMP. Maintain records of BMP inspections for the duration of the project. Submit copies of the inspection reports to the Engineer upon request. Inspections shall be made at the following intervals:

- (1) Weekly during dry periods.
- (2) Within 24 hours of any rainfall of 0.5 inches or greater which occurs in a 24-hour period.
- (3) Daily during periods of prolonged rainfall.

(4) When existing erosion control measures are damaged or not operating properly as required by the site-specific BMP plan.

Remove, replace or relocate any BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to the project or public.

The Contractor's designated representative specified in Subsection XXX.XX(A)(2)(f) shall address any BMP concerns brought up by the Engineer within 24 hours of notification, including weekends and holidays. Should the Contractor fail to satisfactorily address these concerns, the Engineer reserves the right to employ outside assistance or use the Engineer's own labor forces to provide necessary corrective measures. The Engineer will charge the Contractor such incurred costs plus any associated project engineering costs. The Engineer will make appropriate deductions from the Contractor's monthly progress estimate. Failure to apply BMP shall result in either or both the establishment and increase in the amount of retainage due to unsatisfactory progress or withholding of monthly progress payment. Continued failure to apply BMP may result in one or more of the following: the Contractor being fully responsible for all additional costs incurred by the State, suspension of the Contract, or cancellation of the Contract.

(C) Hydrotesting Activities. If work includes removing, relocation or installing waterlines, and the Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, obtain a Notice of General Permit Coverage (NGPC) authorizing discharges associated with hydrotesting waters from the DOH Clean Water Branch (CWB). If a permit is required, prepare and submit permit application (CWB-Notice of Intent (NOI) Form F) to the DOH CWB.

Do not begin hydrotesting activities until the DOH CWB has issued a NGPC. Hydrotesting operations shall be in accordance with conditions in the NGPC. Submit a copy of the NPDES Hydrotesting Waters Application and Permit to the Engineer.

(D) Dewatering Activities. If excavation of backfilling operations require dewatering, and the Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, obtain a NGPC authorizing discharges associated with construction activity dewatering from the DOH CWB. If a permit is required, prepare and submit permit application (CWB-NOI Form G) to the DOH CWB.

Do not begin dewatering activities until the DOH-CWB has issued a NGPC. Conduct dewatering operations in accordance with the conditions in the NGPC. Submit a copy of the NPDES Dewatering Application and Permit to the Engineer.

XXX.XX Measurement.

- (A) Installation, maintenance, monitoring, and removal of the BMP will be paid on a lump sum basis. Measurement for payment will not apply.
- **(B)** The Engineer will only measure additional water pollution, dust and erosion control required and requested by the Engineer on a force account basis in accordance with Subsection 109.06 -- Force Account Provisions and Compensation of the *Hawaii Standard Specifications for Road and Bridge Construction*, 2005.

XXX.XX Payment. The Engineer will pay for accepted pay items listed below at contract price per pay unit, as shown in the proposed schedule. Payment will be full compensation for work prescribed in this section and contract documents.

The Engineer will pay for the following pay item when included in the proposed schedule:

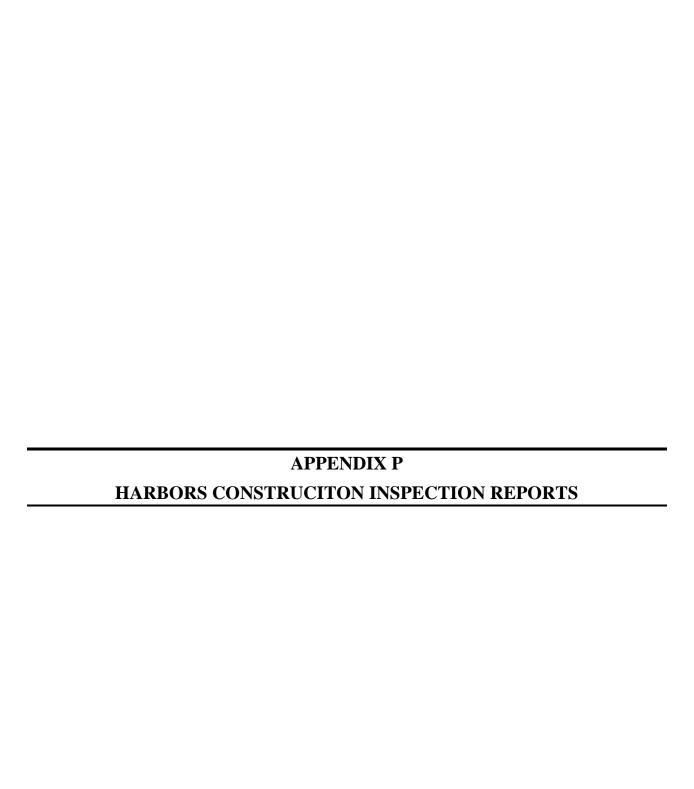
Pay Item Pay Unit

Installation, Maintenance, Monitoring, and Removal of BMP

Lump Sum

No progress payment will be authorized until the Engineer accepts in writing the site-specific BMP plan or when the Contractor fails to maintain the project site in accordance with the accepted BMP plan.

The Contractor shall reimburse the State within 30-days for the full amount of all outstanding costs incurred by the State for all citations or fines received as a result of the Contractor's non-compliance with regulations.



SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Port of Honolu	ılu Passenger	tic NGPC	C No		
Project No.: _	HC 10365		-	11:30AM		
Contractor:	Hawaiya Tech	nologies, Inc.				SUNNY
Verified By:	(HDOT Project	h.L.	Engineer's S	- Gianature)	Date:	4/12/2011
EROSION COI	NTROL - SLOP			, , , , , , , , , , , , , , , , , , ,		
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No Ground disturbance
						_
Notes/Actions Work at KBPH to		r work inside	the Harbors /	Agent's office. Inspe	cted by Joe.	
To be performa	ed by:			on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No ground disturbance.
		-		
			,	
		,		
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (or before:	

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabiliza		ptable? *Effectives/No) of meth	veness od used	Comments
N/A				1	
* Effectiveness Rating: Excellent,	Van Cood Cood Fair Book				
Notes/Actions:	very Good, Good, Pail, Podr)				
VOLES/ACTIONS.					
T					
To be performed by:			on or bei	fore:	
STRUCTURAL CONTRO		NS)			
Location	Type of Sediment	Acceptable?	*Effectiveness	of	
	Basin	(Yes/No)	Sediment Bas	sin	Comments
I/A					
* Effectiveness Rating: Excellent,	Vary Card Cood Fair Park				
Votes/Actions:	very Good, Good, Fair, Poor)				
AOLES/ACTIONS.					
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		17 To			2010
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To be performed by:			on or be	fore:	

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	Yes	No dust created today.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site. Equipment (lift) is a rental only.
Material Storage	Yes	Materials are stored in trucks or vans and won't be stored on site.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Port of Honolulu Passenger/Cargo Facility IEDS Threat Preventic					C No
Project No.:	HC 10365					2:00PM
Contractor:	Hawaiya Tech	nologies, Inc.				SUNNY
Verified By:	(HDOT Project Inspector/Engineer's Signature)					5/4/2011
EROSION COM		·	J	ngriature)		
Loc	ątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No Ground disturbance
-	_					
Notes/Actions Pre-final inspec		2 FSO office	1			
To be performe	ed by:			on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No ground disturbance.
		_		
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		_		
(* Effectiveness Rating: Excellent, Very Go	od, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on c	or before:	

STABILIZED CONSTRUCTION ENTRANCE

	Type of Stabiliz		ptable? "Et s/No) of i	fectiveness method used	Comments
/A)		
					-7-
			<u>i</u>		
ifectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
tes/Actions:	7517 5555, 5555, 120, 130, 1				
tes/Actions.					
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be performed by:			on o	r before:	
FRUCTURAL CONTR					
	OLS (SEDIMENT BAS				
	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)	SINS)		ness of	Comments
neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
TRUCTURAL CONTRO heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment	SINS) Acceptable?	*Effectiver	ness of	
Location A	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	
Location A Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	
heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	
Location A Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	
Location A Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	
Location A Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall) Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiver	ness of	

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	No work observed today.
Dewatering	N/A	No dewatering activity involved today.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site,
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site. Equipment (lift) is a rental only.
Mate 1al Storage	Yes	Materials are stored in trucks or vans and won't be stored on site.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Installation of	Additional Ci	ruise Ship Boll	MGPC	No.	N/A	
Project No.:	HC 10408					9:00AM	
Contractor:	Ideal Construc	tion, Inc.				Sunny	
Verified By:	VA 12						10/11/2011
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS				
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
N/A						No g	round disturbance.
Notes/Actions Final inspection	s: n today. Job clos	ed.					,
	Yearly Established Prompt 20		eran diring a sample and a samp	Adaman on an an and a first of the latest an	AND THE RESERVE OF THE PERSON NAMED IN THE PER		ما المراجعة
To be perform	ed by:			on or be	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A	·		ļ	
		F		
(* Effectiveness Rating: Excellent, Very Good,	, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (or before:	

STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabilization			Effectiveness of method used	Comments
N/A	_			. —	
					<u> </u>
			i		
(* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				<u> </u>
Notes/Actions:					
To be performed by:				or boforo	
To be performed by			011	or before:	
STRUCTURAL CONTRO		INS)			
(Check for Condition of Basin and					
Location	Type of Sediment Basin	Acceptable? _(Yes/No)		eness of ent Basin	Comments
N/A					
			<u>-</u>		
					·
					
* Effectiveness Rating: Excellent, \	Very Good, Good, Fair, Poor)				
Notes/Actions:					
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		managarote kanananga			TO THE
o be performed by:				or nature.	

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments			
Sawcutting	N/A	No sawcutting involved today.			
Dust Control	N/A	Catchment system was set up under the pier and above the water level to catch all falling debris.			
Dewatering	. N/A	No dewatering activity involved today.			

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments				
Concrete Washout/Waste	N/A	No concrete pouring observed today.				
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.				
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.				
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.				
Material Storage	Yes	Materials are hauled away.				
Spill Prevention/Control	N/A					
Waste Storage/Disposal	Yes	No project-related wastes are on site.				

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:Installation of	Additional Cr	ruise Ship Boll	NGP0	C No	
Project No.: HC 10408			8:00AM		
Contractor:ideal Construc	ction, Inc.			CLOUDY / Showers	
Verified By: (HDOT Project Inspector/Engineer's Signature)					08/29/2011
EROSION CONTROL - SLOP	PES/EXPOSE	ED AREAS			
Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A		}			No ground disturbance.
	,	,			
			<u> </u>		
Notes/Actions: Rebars are installed. Forms will					
To be performed by:	yyean old de la company	VENEZUAL SECTION AND SECTION A			

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
				·
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor}			
Notes/Actions;				
To be performed by:		on +	or before:	

STABILIZED CONSTRUCTION ENTRANCE

Location .	Type of Stabiliz	ation Acce	eptable? es/No)	*Effectiveness of method used	Comments
N/A					
					
(* Effectiveness Rating: Excellent, \	Very Good Good Eair Poor	,			
Notes/Actions:	rely 3000, 3000, Fair, Fool	,			
Notes/Notes is.					
			_		
To be performed by:			or	or before:	
STRUCTURAL CONTRO		SINS)			
(Check for Condition of Basin and C		[+F* CC L1		
Location	Type of Sediment Basin	(Yes/No)		veness of ent Basin	Comments
N/A					
· · · · · · · · · · · · · · · · · · ·					
* Effectiveness Rating: Excellent, V	ery Good, Good, Fair, Poor)			
Notes/Actions:		,			
			, , , , ,		
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To be performed by:			Of	n or before:	

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments			
Sawcutting	N/A	No sawcutting involved today.			
Dust Control	N/A	Catchment system was set up under the pier and above the water level to catch all falling debris.			
Dewatering	N/A	No dewatering activity involved today.			

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments				
Concrete Washout/Waste	N/A	No concrete pouring observed today.				
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.				
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.				
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.				
Material Storage	Yes	Materials are mostly stored inside Pier 2 shed.				
Spill Prevention/Control	Yes					
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.				

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Repair Windov	Repair Windows at Harbors Administration Building					N/A 	
Project No.:	HC 10428	HC 10428					9:00 pm	
Contractor:	All Maintenan	ce and Repai						
Verified By:	Lauren Tokura V				Date:		07/19/11	
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS					
Loc	cątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments	
None						N/A		
				_				
Notes/Actions No ground dist		conducted w	ithin Harbors	Administration Build	ling.			
						·		
	, Carlo	- 211	7752002° Char					
To be perform	ned by:			on or b	oefore:			

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				N/A
			<u>.</u>	
				<u> </u>
				<u> </u>
(* Effectiveness Rating: Excellent, Very God	od, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on -	or before:	

STABILIZED CONSTRUCTION ENTRANCE

Location .	Type of Stabilizat	ion Acce	ptable? s/No)	*Effective of method	ness I used	Comments
None					_	N/A
	_					
(* Effectiveness Rating: Excellent, V	ery Good, Good, Fair, Poor)					<u> </u>
Notes/Actions:						
To be performed by:			O	n or befor	.e.	
To be performed by:				., 0, 50,0,	o	
STRUCTURAL CONTROL		NS)				
(Check for Condition of Basin and Co			*======================================			
Location	Type of Sediment A Basin	(Yes/No)	Sedin	iveness of nent Basin		Comments
None	1				N/A	
					1	
* Effectiveness Rating: Excellent, Ve	ery Good, Good, Fair, Poor)					-
Notes/Actions:						
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To be performed by:			0	n ochało	ro.	
To be performed by:			0	n or befo	re:	

OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Lead/Asbestos-Abatement	Acknowledged	Work conducted by Unitek. Inspected again at 12:15am and lead/asbestos-abatement work completed.

CONTRACTOR ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicles fueled on site.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaned on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintanence on site.
Material Storage	N/A	Materials stored within vehicles or under cover.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

N/A

SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Repair Windows at Harbors Administration Building

Project Title:	Repair Windows at Harbors Administration Building					No.	N/A
Project No.:	HC 10428						10:00 am
Contractor:	All Maintenance and Repair						Sunny
Verified By:	Lauren Tokura Yaunen M Wama (HDOT Project Inspector/Engineer's Signature)						09/21/11
EROSION CO	NTROL - SLOP		_	,			
Loc	cątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
None					[N/A	
	7						
 			[
ļ							
Notes/Action		conducted or	n Nimitz High	way exterior of Harb	ors Administrat	ion F	Building
- Ground dis	tarbance, work	conducted of		Tray exterior or right	OIS NOTHINISTIAL		
				Address of the Control of the Contro	- AL CASE CASE		ann ann an Aireann an
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				<del></del>	~~~	
To be perform	ned by:			on or b	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				N/A
· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
* Effectiveness Rating: Excellent, Very (	Good, Good, Fair, Poor)			
Notes/Actions:				
				<del></del>
To be performed by:		on	or before:	

# STABILIZED CONSTRUCTION ENTRANCE

Location	Type of Stabiliza	ation Acce		*Effective of method		Comments
None						N/A
						-
Effectiveness Rating: Excellent	Very Good, Good, Fair, Poor)					·
				_		
To be performed by:			or	n or befor	e:	
Check for Condition of Basin and		11101				
Location	Type of Sediment A	Acceptable? (Yes/No)		veness of ent Basin		Comments
None		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		N/A	
				-		
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)		_			
Notes/Actions:						
						No Application of the Control of the
	The shiften is a section or any and the section of	**************************************	rough Ball William of Africans Street.			to programme to the state of th
o be performed by:	·		or	ofed to r	e:	

# OTHER CONSTRUCTION ACTIVITIES

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Caulking and painting window frames	Acknowledged	Work consists of sanding, caulking and painting frames. No drain inlets located within work areas.
Housekeeping	Acknowledged	Work area cleaned at end of each day.

# **CONTRACTOR ACTIVITIES**

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicles fueled on site.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaned on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintanence on site.
Material Storage	N/A	Materials stored within vehicles or under cover.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Fender Repair	nder Repairs at Pier 39, Honolulu Harbor				No
Project No.:	HC 10429			2:30PM		
Contractor;	Integrated Co	nstruction, In				SUNNY
Verified By: _	100ha-1-2					11/15/2011
EROSION CON			-	,		
Loca	ạtion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
	<u> </u>					
Notes/Actions Final inspection						
To be performe	ecl by:					

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
(* Effectiveness Rating: Excellent, Very Goo	d, Good, Fair, Poor)			
Notes/Actions:			· · · · · · · · · · · · · · · · · · ·	
To be performed by:		on (	or before:	

Location	Type of Stabiliza		ptable? * s/No) o	Effectiveness f method used	Comments
N/A					
					······································
	_	_			
		l			
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)			l	
otes/Actions:					
<u>_</u>					
be performed by:			on	or before:	
TRUCTURAL CONTRO	OLS (SEDIMENT BAS	INS)			
heck for Condition of Basin and		<del></del>			
Location	Type of Sediment A	Acceptable? (Yes/No)		eness of nt Basin	Comments
A	Jaoin	(100/110)			
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
otes/Actions:					
44/	3, 1111				
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ann air de de la commence Commence de la Commence d	Materials 21 California 20	ri forsænd des Friede, sjøgere sjøgere pri en en pærere en	-		of a state of the
be performed by:			on	or before;	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting work today.
Dust Control	N/A	No dust work today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Title: Electrical and Water Lines Repairs at Piers 16-17, Honolulu Harb					C No
Project No.:	HC 10431					1:00PM
Contractor:	Royal Contrac	ting Co, Inc.				SUNNY
Verified By:	Shic	12	Engineerin C	Name ( vo)	Date;	04/5/2011
EROSION CON	HDOT Project TROL - SLOP	•	o .	oignature)		
Local	tion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
				· <del>-</del>		
-						
Notes/Actions: Formwork for new	w bullrails at P	ier 16 are bei	ng set up. Ele	ectrical sub was work	king at pier 17	with working rafts.
To be performed	d by:		u a	on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
				Maradaga
(* Effectiveness Ralling: Excellent, Very Goo	od, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on ·	or before:	

	Type of Stabiliza	ation Acce	ptable? <u>s/No)</u>	*Effectiveness of method used	Comments
N/A					
			1	-	
ffectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
otes/Actions:					
				·	
<del></del>					
be performed by:			0	n or before:	
,	<del>_</del>				
		<u>INS)</u>			
TRUCTURAL CONTRO		I <u>NS)</u>			
	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	Comments
heck for Condition of Basin and Location	Condition of outfall)				
heck for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	
heck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	
heck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	
heck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	
heck for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?		iveness of	
Location  A	Type of Sediment / Basin	Acceptable?		iveness of	
Location  A  Iffectiveness Rating: Excellent,	Type of Sediment / Basin	Acceptable?		iveness of	
Location  Location  A  Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment / Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	Sedim	iveness of nent Basin	Comments
Location  Location  A  Effectiveness Rating: Excellent, otes/Actions:	Type of Sediment / Basin	Acceptable? (Yes/No)	Sedim	iveness of nent Basin	Comments
Location  A  Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment / Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	Sedim	iveness of nent Basin	Comments
Location  A  Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment / Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	Sedim	iveness of nent Basin	Comments

Activity	Adequate BMPs? (Yes/No)	Comments
Sawculting	N/A	No sawcutting involved today.
Dust Control	Yes	Wood forms are set up first to catch the debris from drilling.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Wasta Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

## SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Electrical and Water Lines Repairs at Piers 16-17, Honolulu Harb					S No
Project No.: _	HC 10431					1:00PM
Contractor;	Royal Contracting Co, Inc.					SUNNY
Verified By: _	(Chr.L)					04/18/2011
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS			
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
Notes/Actions Formwork for n		ulfrails at Pie	r 17 are being	set up. Electrical su	ıb are working	at pier 16 to remove
old pipe stanch	nions.				) y =	and the state of t
To be perform	ed by:	action as an explicit	, potential laboration	on or b	etore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
-				
(* Effectiveness Rating: Excellent, Very Good	, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (	or before:	

Location	Type of Stabiliz	ation Accer	s/No)	of method u		Comments
N/A						
				]		
		_			_	
		-				
(* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)					
	, 2000, 2000, 1 4, 1 52,					
Notes/Actions:						
					<u></u>	
						<u> </u>
	_					
To be performed by:			0	n or before:		
STRUCTURAL CONTRO		SINS)				
(Check for Condition of Basin and	Condition of outfall)					
Location	Type of Sediment Basin	Acceptable? (Yes/No)		iveness of nent Basin		Comments
	Dasiii	() 63/140/	004111	10116 Baloin		
V/A 						
				-		
				_		
* Effectiveness Rating: Excellent,	Van Card Gard Fair Book	1				
	very Good, Good, Fair, Poor)					
Notes/Actions:						
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						AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND A
- Company Company Company of the Com				<del>~~~~</del> ~~~~~	- بيد معدد	
To be performed by:			0	n or before:		
,						

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	Yes	Wood forms are set up first to catch the debris from drilling.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

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Project Title: _	Electrical and \	Water Lines R	epairs at Piers	NGPC	NGPC No. N/A		
Project No.: _	HC 10431					9:50AM	
Contractor;	Royal Contrac					SUNNY	
Verified By:	erified By:  (HDOT Project Inspector/Engineer's Signature)					05/12/2011	
EROSION COI	NTROL - SLOP	·	J	ngriature)			
Loc	ątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments	
N/A						No ground disturbance.	
		,	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
				_			
		-			"		
Notes/Actions New 2" copper	: lines are being i	nstalled.					
To be performe	ed by:			on or b	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
(* Effectiveness Raling: Excellent, Very G	ood, Good, Fair, Poor)			
Notes/Actions;				
To be performed by:		on (	or before:	

Location	Type of Stabiliz	ation Acce	ptable? '*Effectivenes es/No) of method us	Comments
N/A		·		
(* Effectiveness Rating: Excellent, V	an Good Good Fair Poor			
Notes/Actions:	ery G000, G000, F2#, F00.)			
NOTOS/ACTIONS.				
To be performed by:			on or before:	
STRUCTURAL CONTROL		SINS)		
(Check for Condition of Basin and C				
Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				
			,	
* Effectiveness Rating: Excellent, Ve	ery Good, Good, Fair, Poor)			
Notes/Actions:				
The state of the s				#####################################
To be performed by:			on or before:	

Activity	Adequate BMPs? (Yes/No)	Comments			
Sawcutting	N/A	No sawcutting involved today.			
Dust Control	Yes	Work are contained within the new conc. bullrail systems.			
Dewatering	N/A	No dewatering activity involved today.			

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Electrical and Water Lines Repairs at Piers 16-17, Honolulu Harb					No
Project No.:	HC 10431					10:00 AM
Contractor:	Royal Contracting Co, Inc.					SUNNY
Verified By:	By: (HDOT Project Inspector/Engineer's Signature)					10/27/2011
	(HDOT Project			signature)		
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
					_	
			-		_	
Notes/Actions Final inspection	today					
						CV-Acres (Control of the Control of

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
			,	
(* Effectiveness Rating: Excellent, Very Good	d, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on e	or before:	

Location	Type of Stabilizat		ptable? *Effi s/No) of m	ectiveness nethod used	Comments
N/A					
		-			
					<u></u>
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
Notes/Actions:					
o be performed by:			on or	before:	
STRUCTURAL CONTRO Check for Condition of Basin and (		<u>NS)</u>			
Location	· Type of Sediment A				Comments
	Basin	(Yes/No)	Sediment	Basin	
/A ·					
Eff. all and Deliver Eq. (1)					
Effectiveness Rating: Excellent, \	Very Good, Good, Fair, Poor)				
lotes/Actions:					
	the same of the sa				
The state of the s	And the state of t	·	-		The state of the s
o be performed by:			טט מוי	before:	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	No work today.
Dewatering	N/A	No dewatering activity involved today.

Adequate BMPs? (Yes/No)	Comments				
N/A	No concrete pouring observed today.				
N/A	No equipment fueling observed on site.				
N/A	No equipment cleaning observed on site.				
N/A	No vehicle/equipment maintenance observed on site.				
N/A	No work today.				
Yes					
Yes	No construction debris is observed on site. No work today.				
	N/A N/A N/A N/A N/A N/A Yes				



#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Repair Piles at	Pier 40, Hond	NGPC	No.	N/A		
Project No.:	HC 10440					10:15 am	
Contractor:	American Mar		ion				sunny
Verified By:	RODNEY YAMANE Like						04/06/11
EROSION CO	(HDOT Project Inspector/Engineer's Signature)  EROSION CONTROL - SLOPES/EXPOSED AREAS						
Loc	cątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
None				<del></del>		N/A	
							-
Notes/Actions	S:	-	'		·		
***************************************			WTT 7440FI				and the state of t
		N <del>g 2 ''''                               </del>			<u> </u>		
To be performed by: on or before:							

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
Around the sheetpile	Floating Silt Curtain	Acknowledge d		
Under the repair area	Raft	Acknowledge d		A raft is placed under the repair area to catch chippings.
			' 	
			·	
(* Effectiveness Rating: Excellent, Very G	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		_ on -	or before:	

STABILIZED CONSTRUCTION ENTRANCE	STABILIZED.	CONSTRUCTION	ENTRANCE
----------------------------------	-------------	--------------	----------

Location	Type of Stabiliza		ptable? :s/No)	*Effective of method			Comments	S 
None						N/A		
					<u> </u>			
			-					
Effectiveness Rating: Excellent	Very Good, Good, Fair, Poor)			<u> </u>	<u> </u>		_	
otes/Actions:								
	_							
<del></del>								
he performed by:			_	n or bofor				
bo pariarmed by:			^U	i or neroi	е			
				i or beloi	е:			
TRUCTURAL CONTR	OLS (SEDIMENT BASI		0	n or belor	е:			
TRUCTURAL CONTRO	OLS (SEDIMENT BAS) Condition of outfail)	INS)						
TRUCTURAL CONTR	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of			Comments	
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS) Condition of outfail)	INS)	*Effect					
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment	NS)	*Effect	iveness of				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS) Condition of outfail) Type of Sediment A Basin	NS)	*Effect	iveness of				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS) Condition of outfail) Type of Sediment A Basin	NS)	*Effect	iveness of				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location  Hone	OLS (SEDIMENT BAS) Condition of outfail) Type of Sediment A Basin	NS)	*Effect	iveness of				
TRUCTURAL CONTRO  neck for Condition of Basin and  Location  Jone  Iffectiveness Rating: Excellent,	OLS (SEDIMENT BAS) Condition of outfail) Type of Sediment A Basin	NS)	*Effect	iveness of				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location  None  Effectiveness Rating: Excellent,  otes/Actions:	OLS (SEDIMENT BAS) Condition of outfail) Type of Sediment A Basin	NS) Acceptable? (Yes/No)	*Effect Sedin	iveness of nent Basin	N/A		Comments	
TRUCTURAL CONTRO  heck for Condition of Basin and  Location  None  Effectiveness Rating: Excellent,  otes/Actions:	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment A Basin  Very Good, Good, Fair, Poor)	NS) Acceptable? (Yes/No)	*Effect Sedin	iveness of nent Basin	N/A		Comments	
tructural control heck for Condition of Basin and Location  None  Effectiveness Rating: Excellent, otes/Actions:	OLS (SEDIMENT BAS) Condition of outfail)  Type of Sediment A Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	*Effect Sedin	iveness of nent Basin	N/A		Comments	
TRUCTURAL CONTRO heck for Condition of Basin and Location  None  Effectiveness Rating: Excellent, otes/Actions:	OLS (SEDIMENT BASE Condition of outfail)  Type of Sediment A Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	*Effect Sedin	iveness of nent Basin	N/A		Comments	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Demolition Work	Acknowledged	A raft is placed under the repair area to catch any overspill of chipped materials.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	Yes	Drip pans present, spill kit on hand.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintenance on site.
Material Storage	N/A	
Spill Prevention/Control	Yes	Spill kit on site.
Waste Storage/Disposal	N/A	

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

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Repair Piles at Pier 40, Honolulu, Harbor

Project Title:

Project No.:	HC 10440					1:10 pm
Contractor:	American Marine Corporation					sunny
Verified By:	RODNEY YAMANE Book Lown				Date:	04/20/11
	(HDOT Project Inspector/Engineer's Signature)					
EROSION CO	NTROL - SLOP	PES/EXPOSI	ED AREAS			
Loc	cątíon	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None						N/A
		-				
		,				
			_			
Notes/Actions	s:					
	·					
	······································					
To be perform	ed by:			on or be	efore:	

N/A

NGPC No.

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
Around the sheetpile	Floating Silt Curtain	Acknowledge d		
	-			
(* Effectiveness Rating: Excellent, Very Good,	Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (	or before:	

Location	Type of Stabiliza			ffectiveness method used	Comments
None					N/A
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
otes/Actions:	,				
OLGS/ACRONS.					
<u> </u>					
o be performed by:			on c	or before:	
,					
TRUCTURAL CONTRO		INS)			
Check for Condition of Basin and					
Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effective Sedimer		Comments
None				N/A	
	-				
Effectiveness Rating: Excellent,					
_	very Good, Good, Fair, Poor)				
otes/Actions:					
	Manager of the control of the contro	Dr. Principles VIII	and the state of t		
					, p = 1, to

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Demolition Work	N/A	Demolition complete.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	Yes	Plastic wading pools on site for upcoming concrete pour.
Vehicle/Equipment Fueling	Yes	Drip pans present, spill kit on hand.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintenance on site.
Material Storage	N/A	
Spill Prevention/Control	Yes	Spill kit on site.
Wasta Storage/Disposal	N/A	



#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Repair Piles at Pier 40, Honolulu, Harbor					C No.	N/A
Project No.:	HC 10440						9:35 am
Contractor:	American Marine Corporation						cloudy
Verified By:	RODNEY YAN	AANE S	Enly	lann	Date:		05/04/11
EROSION CO	(HDOT Project		Engineers	Signature)	<del></del> -		
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
None						N/A	
		,					
				<del>_</del> .			
				-			
Notes/Actions	): 						
						×	
l'o be perform	ed by:			on or b	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
Around the sheetpile	Floating Silt Curtain	Acknowledge d		
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (	or before:	

Location	Type of Stabiliz		plable? s/No)	*Effectiven	iess used	Comments
None					1	N/A
			<del></del>			
	_					
* Effectiveness Rating: Excellent, \	Very Good, Good, Fair, Poor	)				·
Notes/Actions:	,	,				
				<u>-</u>		
To be performed by:			0	n or before	∋:	
STRUCTURAL CONTRO	LS (SEDIMENT BAS	SINS)				
Check for Condition of Basin and (	Type of Sediment	Accentable?	*Effect	iveness of		
	Basin	(Yes/No)		nent Basin		Comments
None					N/A	
* Effectiveness Rating: Excellent, V	rery Good, Good, Fair, Poor)					
Notes/Actions:						
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		and the state of the state of the state of				and the second s
	and the control of th	والمواولة المناسب والمراء والمناسب والمناسب والمناسب والمناسب والمناسب والمناسب			Toron M. M. Barken, J. Sangar	The state of the s
o be performed by:			01	n ar hafor		
o bo ponornion by				10100000	·	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Demolition Work	N/A	Demolition complete.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	Yes	Plastic wading pools employed on 4/29, removed from site.
Vehicle/Equipment Fueling	Yes	Drip pans present, spill kit on hand.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintenance on site.
Material Storage	N/A	
Spill Prevention/Control	Yes	Spill kit on site.
Waste Storage/Disposal	N/A	
	, and a second	

BES	ST M	ANAG	EME	NT PR	ACTIC	<b>BEST MANAGEMENT PRACTICES CHECKLIST</b>	IST	
Date of Inspection: 5 / 4 / 11	Proje	ct Title	and J	SoN do	HC 104	Project Title and Job No.; HC 10440 Repair Piles at Pier 40, Honolulu	at Pier 40, Ho	nolulu
Insp Rodney Yamane	Photo	graph	is: Yes	Photographs: Yes √ pr No			NGPC No. (if applicable):	applicable):
Weather: Cloudy		Prop	Properly	٥		Description of	Date	
Tide Level: N/A		Insta	Installed/	Maintonanco	alre	Required	Corrective	
		Obse	Observed	Mallife	lalice	Maintenance/	Actions	
	N/A	Yes	No	Yes	No	Deficiencies	Taken	Notes:
A. Stabilized Construction Egress?	×							
Vehicular Tracking	×							
B. Erosion Control Device(s)	×							
Storm Drain Inlet Protection	×							
			•	•				
C. Dust Control/Suppressant	×	;						1760
Concrete Washout Area (AC)		×					<u>"</u>	see additional comments
D. Vehicle/Equipment Maintenance Area (ACoC)	×							
Vehicle/Equipment Fueling Area (AC)	×							
Vehicle/Equipment Storage Area (AC)	×							
								:
E. Material Storage Area (ACoC)		×					_	Materials stored in a 20' container
Stockpiles of Materials (ACoC)	×							
ſ					ĺ			
F. Flammable/Fuel Storage Area (ACoC)	×							
Hazardous Material Storage (ACoC)	×							
Waste Storage Area (AC)	×							
G. Good Housekeeping Practices (Is project generally free of litter, sediment, etc.?)		×						
		>						
٦.		<						
Major Site Activites:								
Demolition Des	Paving							
Excavation $\Box$	Haulir	Hauling Materials	erials	0				
Concrete Pouring □Yes	Other							
Contaminated Soils (adocusts containment)	(		Oding	ioca tac	(3)	Ordimont Bacin(s) (control maintenate)		
Containinated Soils (adequate Containinain)	) כ			מיות שלט טיט	1(3) (c)	Sediment Dashi(s) (control and maintenaine)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Discringuates) to State waters Colling Dewatering and/or Hydrotesting (Is this project in compliance with all NPDES storm water permitting requirements?)	npliand	e with	all NPC	SES stor	n water	or politicalrits <i>)</i> แ r permitting requ	) receiving war iirements?)	- Z
Rodnev Yamane	N		The state of the s	3		5/4/2011		(AC) = Adequate Containment
Verified By (HDOT Project Inspector/Engineer's Signature)	Per's	Signati	Ire)	}	'	Date	(ACc	(ACoC) = Adequate Cover or Containment
merimone of the solution in solution	2	1				)	, ) . >	

# ADDITIONAL NOTES:

Ţ.	G.	.π	ĹΠ	D	Ç.	œ	₽
				Concrete poured on 4/29/11 only. Plastic wading pools provided for concrete washout and removed from site.			

## SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Project Title:	Repair Windov	vs at Harbors	Administration	on Bullding	NGPC	No.	N/A
Project No.:	HC 10428						9:00 pm
Contractor:	All Maintenan	ce and Repai	r				
Verified By:	Lauren Tokura		New Mil Engineer's S		Date;		05/18/11
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS				
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
None						N/A	
		_					
						_	
				,			
Notes/Actions No ground dist				Administration Build		,,	
		·	an and a second an			The state of the s	
To be perform	ed by:			on or b	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				N/A
			_	
				<del></del>
(* Effectiveness Rating: Excellent, Very Good	d, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

	Type of Stabiliz	ation (Ye	s/No)	*Effective of method		Comments
None						N/A
Effectiveness Rating: Excellent	Very Good, Good, Fair, Poor)					
otes/Actions:						
be performed by:			0	n or befor	e:	
TRUCTURAL CONTRO Check for Condition of Basin and		SINS)				
Location	Type of Sediment		*Effect	iveness of		Comments
	Type of Sediment Basin	Acceptable? (Yes/No)	*Effect Sedin	iveness of nent Basin		Comments
			*Effect Sedin	iveness of nent Basin	N/A	Comments
			*Effect Sedin	iveness of nent Basin		Comments
			*Effect Sedin	iveness of nent Basin		Comments
			*Effect Sedin	iveness of nent Basin		Comments
None	Basin	(Yes/No)	*Effect Sedin	iveness of nent Basin		Comments
None  Effectiveness Rating: Excellent,	Basin	(Yes/No)	*Effect Sedin	iveness of nent Basin		Comments
None  Effectiveness Rating: Excellent,	Basin	(Yes/No)	*Effect Sedin	iveness of nent Basin		Comments
None  Effectiveness Rating: Excellent, otes/Actions:	Basin	(Yes/No)	Sedin	nent Basin	N/A	
None  Effectiveness Rating: Excellent, otes/Actions:	Basin  Very Good, Good, Fair, Poor)	(Yes/No)	Sedin	nent Basin	N/A	
None  Effectiveness Rating: Excellent,	Basin  Very Good, Good, Fair, Poor)	(Yes/No)	Sedin	nent Basin	N/A	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Lead/Asbestos-Abatement	Acknowledged	Work conducted by Unitek. Inspected again at 12:30am and lead/asbestos-abatement work completed.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicles fueled on site.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaned on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintanence on site.
Material Storage	N/A	Materials stored within vehicles or under cover.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Project Title:	FY11 1-yr Pave	ement Mainte	NGPO	HI R10C108 No.		
Project No.:	HC 10444			9:45AM		
Contractor:	Jas. W. Glover	, Ltd.		SUNNY		
/erified By:	(Ands)					10/25/11
EROSION CO	(HDOT Project	·	_	Signature)		
Lo	cạtion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
		<u> </u>				
<del> </del>						
lotes/Action Cold-planing 6		(126ft x 83.5ft	t) today and e	xpected to put back	new 6" aspha	It pavement this afternoon
						in the
				~ A V-2		
o be perform	ned by:			on or b	efore:	THE COLUMN TO SERVICE AND ASSESSMENT OF THE COLUMN TWO SERVICES AND ASSESSMENT ASSESSMEN

   Drain inlet by Area 7	Inlet protection	Yes		
		163	Good	
			,	<u> </u>
		_		
(* Effectiveness Rating: Excellent, Very Good, G	ood, Fair, Poor)			
Notes/Actions:				
To be performed by:		07.4	or before:	

Location	Type of Stabiliz	ation Acce	ptable? *Effect s/No) of me	tiveness thod used	Comments
N/A					
			•		
					<u> </u>
(* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)	<u> </u>			
Notes/Actions:					
To be performed by:			on or b	efore:	
STRUCTURAL CONTRO		ins)			
Location	Type of Sediment	Acceptable?	*Effectivenes	s of	Comments
	Basin	_(Yes/No)_	Sediment Ba	asin	Comments
N/A					
-					
				_	
			•		
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
	Very Good, Good, Fair, Poor)				
	Very Good, Good, Fair, Poor)				
* Effectiveness Rating: Excellent, * Notes/Actions:	Very Good, Good, Fair, Poor)				
	Very Good, Good, Fair, Poor)				

Activity	Adequate BMPs? (Yes/No)	Comments		
Sawcutting	Yes	Cold-planning today with dump truck to catch old asphalt immediately.		
Dust Control	Yes	Sweeper is used to contain any debris runoffs.		
Dewatering	N/A	No dewatering activity involved today.		

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring in this project.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on trucks. Materials (new asphalt) will come as needed.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Project Title:	Expansion Joir	nt Repairs at f	Piers 39-40, H	onolulu Harbor	NGPC	C No
Project No.: _	HC 10454		_		11:15AM	
Contractor:	Ideal Construc	tion, Inc.		<u>-</u>	SUNNY	
Verified By:	/erified By: (HDOT Project Inspector/Engineer's Signature)				Date:	12/6/11
EROSION COL	NTROL - SLOP	'ES/EXPOSI	ED AREAS	,		
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No soil disturbance.
	· .					
		-	_			
Notes/Actions Project started		/11.				
To be performe	ed by:					

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
	<u> </u>			
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:		-		
To be performed by:		on (	or before:	

Location	Type of Stabiliz	ation Acce	ptable? *Effectiver es/No) of method	used Comments
N/A				
-				
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:			on or before	9:
				·
STRUCTURAL CONTRO		SINS)		
Location	Type of Sediment	Acceptable?	*Effectiveness of	
	Basin	(Yes/No)	Sediment Basin	Comments
I/A 				
			_	
Effectiveness Rating; Excellent, V	Very Good, Good, Fair, Poor)			
Notes/Actions:				
The supplied of the supplied o				
o be performed by:			on or before	ə:

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	Yes	Vacuum is on site and actively being used to suck up slurry
Dust Control	Yes	Using vacuum on site.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Told contractor to clean up debris at the end of each day.

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#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Expansion Joil	Expansion Joint Repairs at Piers 39-40, Honoiulu Harbor				NGPC No		
Project No.:	HC 10454	HC 10454				6:30PM		
Contractor:	Ideal Construc							
Verified By: (HDOT Project Inspector/Engineer's Signature)					12/27/11			
EROSION CO	NTROL - SLOP	PES/EXPOSI	ED AREAS					
Lac	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments		
N/A						No soil disturbance.		
	eted. Began pha							
To be perform				on or b		Market Ma		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
			,	
				·
	-			
				-
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:				
7				
To be performed by:	on or before:			

Location	Type of Stabilization	Acceptable? (Yes/No)	*Effectiveness of method used	Comments
N/A				
(* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:	_	c	n or before:	
STRUCTURAL CONTRO	DLS (SEDIMENT BASIN Condition of outfall)	<u>S)</u>		
Location	Type of Sediment Ac		tiveness of	Comments
	Basin (	Yes/No) Sedir	nent Basin	
N/A 			-	
<u> </u>				
* Effectiveness Rating: Excellent, \	Very Good, Good, Fair, Poor)			
Notes/Actions:	, ,			
To be performed by:		7.7	ກ ດະ ໄລທ້າກາ	To add the company of the control of
o se senorada by	——————————————————————————————————————		n or before:	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	Yes	Vacuum is on site and actively being used to suck up slurry.
Dust Control	Yes	Using vacuum on site.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete pouring observed today.
Vehicle/Equipment FuelIng	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Wasta Storage/Disposal	Yes	Told contractor to clean up debris at the end of each day.

### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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**ROOF REPAIRS AT PIER 10 SHED** 

Project Title: _	ROOF REPAIRS	AT PIER 10 S	HED		NGPO	C No
Project No.:	H. C. 10466		_			07:30 AM
Contractor;	CERTIFIED CO	NSTRUCTION	, INC.			sunny
Verified By:	Rodney Yama		Engineer's	fann. Gighature)	Date:	SEPT. 23, 2011
EROSION CO	NTROL - SLOP	ES/EXPOS	ED AREAS			
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None						N/A
		_				
					-	
		T TATELAND				
Notes/Actions No ground dist	s: urbance. Work c	onducted on	the Pier 10 sł	ned roof.		
mrofreg ed o'T	ed by:			on or b	eiore:	erve Charles Supple Annual Control of the Control o

N/A

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
6 DRAIN INLETS	FILTERING CLOTH	Acknowledge	Adequate	Entire work area was first swept, then six inlets were double lined
				with Universal absorbent and filtering cloths prior to pressure-
				washing. The filtering cloths were then discarded and replaced with
			<del>_</del>	new filtering cloths for the duratior of the project.
(* Effectiveness Rating: Excellent, Very	(Good, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabilize	ation Acce	otable? <u>s/No)</u>	*Effective of method	ness used	Comments
None						N/A
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)					
otes/Actions:						
	-					
o be performed by:			0	or hefor	· O ·	
o bo portormod by			0	10100701	·	
TRUCTURAL CONTRO		SINS)				
Check for Condition of Basin and						
Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effecti Sedim	veness of ent Basin		Comments
None					N/A	
	<u> </u>					
Effectiveness Rating; Excellent,	Very Good, Good, Fair, Poor)					
lotes/Actions:						
ور من ميدون مندون و در						and the factor within which has coming to a manner the control of
THE RESERVE THE PROPERTY OF THE PARTY OF THE					-	
o be performed by:				n or befor		

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	Acknowledge	Hydrostop Roof Coating stored on plastic tarps and covered with 6 mil. plastic sheeting.
Spill Prevention/Control	Acknowledge	Absorbent pads on site.
Waste Storage/Disposal	N/A	Debris removed on a daily basis. ( debris consist of empty plastic buckets and remnants of foundation fabric)



### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

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#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	ROOF REPAIRS	AT PIER 10 S	HED		NGPO	S No
Project No.:	H. C. 10466					08:00 AM
Contractor:	CERTIFIED CO	NSTRUCTION	I, INC.			sunny
Verified By:	Rodney Yama		Deles	Jenne-	Date:	OCT. 10, 2011
EROSION CO	(HDOT Project			Signature)		
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None				_		N/A
		_				
	<del></del>					
		_		,		
Notes/Actions No ground dist	3: Turbance. Work o	conducted on	the Pier 10 sh	ned roof.		
				ر من موسود المساور و المساور ا من المساور الم	7 Marie - Mari	
To be perform	ed by:			on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
6 DRAIN INLETS	FILTERING CLOTH	Acknowledge	Adequate	
(* Effectiveness Rating: Excellent, Very Goo	ld, Good, Fair, Poor)			
Notes/Actions:  The filtering cloths will remain over the filtering cloths will remain over the filter than th	ver the drain inlets for the	duration of the	e project.	
To be performed by:		on	or before:	

Notes/Actions: The filtering cloths will remain over the drain	n inlets for the duration of the project.	
o be performed by:	on or before:	

	Type of Stabilizat		ptable? s/No)	*Effective of method		Comments
None						N/A
,		_				
					<u>_</u>	
					_	
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)					
Notes/Actions:						
To be performed by:			0	n or befor	e:	
STRUCTURAL CONTRO	OLS (SEDIMENT BASI	NS)				
Check for Condition of Basin and	Condition of outfall)					
Check for Condition of Basin and Location	Type of Sediment A					Comments
		cceptable? (Yes/No)		iveness of nent Basin		Cornments
	Type of Sediment A				N/A	Cornments
Location	Type of Sediment A					Cornments
Location	Type of Sediment A					Cornments
Location	Type of Sediment A					Cornments
Location	Type of Sediment A Basin					Comments
Location  None  *Effectiveness Rating: Excellent, *	Type of Sediment A Basin					Comments
Location  None  Effectiveness Rating: Excellent, Votes/Actions:	Type of Sediment A Basin  Very Good, Good, Fair, Poor)	(Yes/No)	Sedin	nent Basin	N/A	
Location  None  Fifectiveness Rating: Excellent, Votes/Actions:	Type of Sediment A Basin  Very Good, Good, Fair, Poor)	(Yes/No)	Sedin	nent Basin	N/A	Comments
Location  None  *Effectiveness Rating: Excellent, *Notes/Actions:	Type of Sediment A Basin	(Yes/No)	Sedin	nent Basin	N/A	
Location  None  Feffectiveness Rating: Excellent, Votes/Actions:	Type of Sediment A Basin	(Yes/No)	Sedim	nent Basin	N/A	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	Acknowledged	Hydrostop Roof Coating stored on plastic tarps and covered with 6 mil. plastic sheeting.
Spill Prevention/Control	Acknowledged	Absorbent pads on site.
Waste Storage/Disposal	N/A	Debris removed on a daily basis. ( debris consist of empty plastic buckets and remnants of foundation fabric)

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

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#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Repair Lighting at Clock Tower Room, Aloha Tower					No.	N/A
Project No.:	HC 10352R						7:30 am
Contractor:							sunny
Verified By:	Rodney Yama	ne t	which	(John Signature)	Date;		03/30/11
EROSION CO	(HDOT Project			Signature)			
Loc	tątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	,	Comments
None			_			N/A	
						-	
}							
		}					
						_	· · · · · · · · · · · · · · · · · · ·
							<del></del>
Notes/Actions No ground dist	s: urbance. Work o						
				Acres company - Propression - Indiana - Indian			
To be perform	ed by:			on or b	efore:		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None		_		N/A
		_		
		}		
			· .	
		Į.		
(* Effectiveness Rating: Excellent, Very Good	l, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabiliz		ptable? es/No)	*Effective of method			Commen	ts
Vone						N/A		
			<del></del>					
				<u> </u>				
						<del>-</del>		
		<u> </u>						
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)							
otes/Actions:								
								_
he performed by:								
o de periorifica by			0	n or befor	e:	· <del>-</del>		
			0	n or befor	e:			
TRUCTURAL CONTRO	OLS (SEDIMENT BAS		0	n or befor	e:			
TRUCTURAL CONTRO  heck for Condition of Basin and	OLS (SEDIMENT BAS	SINS)						
TRUCTURAL CONTRO	OLS (SEDIMENT BAS	SINS)	*Effect	n or befor iveness of nent Basin			mments	
TRUCTURAL CONTRO heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO heck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment	Acceptable?	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO heck for Condition of Basin and Location  None	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location  Jone  Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO  heck for Condition of Basin and  Location  Jone  Effectiveness Rating: Excellent,	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				
TRUCTURAL CONTRO  heck for Condition of Basin and	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	iveness of nent Basin				

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Lead-Abatement	Acknowledged	Work conducted by Iniki Enterprises Ltd. Inspected again at 1:30pm and lead-abatement work completed.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicles or equipment on site.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment on site.
Material Storage	N/A	No material stored on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

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#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Port of Honolu	ılu Passenger	r/Cargo Facilit	y IEDS Threat Preven	NGPC	C No.	N/A
Project No.: _	HC 10365				1	10:15AM	
Contractor:	Hawaiya Tech	nologies, Inc	•			S	SUNNY
Verified By:		MA			Date:	3	3/30/2011
1 o., ou oy.	(HDOT Project	t Inspector/	Engineer's S	Signature)			
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS				
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
N/A						No Gr	ound disturbance
		_					
Notes/Actions Work at KBPH sl		d on 3/28/11	. Todav's wor	k is only mounting s	ecurity equip	ment o	on light pole #3.
						· · · · · ·	State of the State
~			Harris Harris Marie Mari	45-44-4-4	the relationship of the contrations of		remanders and the second of th
To be performs	ad by	***************************************	- Paragraphy of the second	an as h	alaro:		₹ AMMA
TO DE DEHOUTE	su oy			on or b	GIOTO.		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No ground disturbance.
	-			
			·	
	_			
	}			
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabilization		otable? *Effectivenes s/No) of method us	cs Comments sed
N/A				
-				
		•		
(* Effectiveness Rating: Excellent, \	/ery Good, Good, Fair, Poor)			
Notes/Actions:				
<del></del>				
	_			
To be performed by:			on or hefore:	
To be performed by.			on or before.	
STRUCTURAL CONTRO		<u>IS)</u>		
(Check for Condition of Basin and (			*F*56	
Location	Type of Sediment Ac Basin (	Yes/No)	*Effectiveness of Sediment Basin	Comments
N/A				
* Effectiveness Rating: Excellent \	/ery Good, Good, Fair, Poor)		<u> </u>	
Notes/Actions:				
				CONTROL AND THE PROPERTY OF TH
		ar, index on other strooper		
		and the second s		الله المساورة
To be preferenced by			on or hafara.	
ro ne beuormed ph:			ou or asials:	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	Yes	Minimal dust created today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site. Equipment (lift) is a rental only.
Material Storage	Yes	Materials are stored in trucks or vans and won't be stored on site.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Project Title:	Port of Honolu	ılu Passengei	₩_ NGPCN	N/A		
Project No.:	HC 10365			11:20AM		
Contractor:	Hawaiya Tech	nologies, Inc	_	SUNNY		
Verified By:	(HDOT Project Inspector/Engineer's Signature)					3/2/2011
EROSION CO	NTROL - SLOP	ES/EXPOSI	ED AREAS			
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A	7					
		_				
	-					
Nates/Actions Trenching work		peninsula is	complete. Gr	ound is backfilled.		
			**************************************	mentere en en 1900 et en		
				on or b		

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
)   N/A				No drain inlet near job site.
		-		
* Effectiveness Rating: Excellent, Very Good	, Good, Fair, Poor)	<u>.                                    </u>	- <u>-</u> l	
Notes/Actions:				
To be performed by:		on (	or before:	

Location	Type of Stabiliza		ptable? *Effect s/No) of me	tiveness thod used	Comments
N/A					
					_
(* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
Notes/Actions:					
	_				
To be performed by:			on or b	efore:	
To be perferrince by:			011 01 01		
STRUCTURAL CONTRO		INS)			
(Check for Condition of Basin and		AA	4E-05 11		
Location	Type of Sediment . Basin	Acceptable? _(Yes/No)	Sediment Ba		Comments
N/A					
		<u> </u>			
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
Notes/Actions:					
	The state of the s	مدرس می مرامل شم می			
o be performed by:			on or b	erore:	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawculting	N/A	No sawcutting involved today.
Dust Control	N/A	No construction work observed today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	No materials were observed on site.
Spill Prevention/Control	N/A	No construction work observed today.
Waste Storage/Disposal	Yes	Waste were hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Port of Honolu	ılu Passenger —————	NGPC	C No		
Project No.:	HC 10365			10:00AM		
Contractor:	Hawaiya Tech	nologies, Inc.		SUNNY		
Verified By: _	(HDOT Project	n John Strategick Control of the Con	Date:	2/15/2011		
EROSION COI	NTROL - SLOP	ES/EXPOSI	ED AREAS			
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
Light Pole #1 8 Marina	& #2 at KBPH	2/7/11		Plastic sheeting is used to cover dirts.	Yes	No slope, just conduit trench. Plastic sheeting is on site.
			1			
					·	
						_
Notes/Actions Project resume	i; d in Kalaeloa Ba	rbers Point H.	arbor in late J	2011 an 2010.		
To be perform	ed by:		The state of the s	on or b	etore:	s/

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				No drain inlet near job site.
			-	
	-			
			·	
			<u>,                                     </u>	
(* Effectiveness Rating: Excellent, Very G	ood, Good, Fair, Poor)			
Nates/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabiliza	tion Acces	otable? * s/No) c	Effectiveness of method used	Comments
N/A					
				<u> </u>	
/k Effectiveness Dation V Eventual 1	(2004 5 12 5 12 5 12 5 12 5 12 5 12 5 12 5 1				
(* Effectiveness Rating: Excellent, \	/ery Good, Good, Fair, Poor)				
Notes/Actions:					
-					
To be performed by:			on	or before:	
To be performed by,			011	or before	
STRUCTURAL CONTRO		INS)			
(Check for Condition of Basin and C	Condition of outfall)				
Location	Type of Sediment A	Acceptable? (Yes/No)	*Effectiv	eness of ent Basin	Comments
	Badin	(103/140)			
				-	
<del></del>					
* Effectiveness Rating: Excellent, V	Jan Cood Cood Sain Book				
	very Good, Good, Pair, Poor)				
Notes/Actions:					
Water Committee of the		**************************************			
To be performed by:			ດກ	or before:	
. J.				J. 55.5(5)	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	Yes	Plastic sheeting is used to cover debris.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	No materials were observed on site. Materials stored in the van or company's pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Waste were hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

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Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Electrical and	Water Lines F	NGPC	S No. N/A		
Project No.:	UC 10421					8:30AM
Contractor:  Royal Contracting Co, Inc.  Verified By:  (HDOT Project Inspector/Engineer's Signature)						SUNNY
						03/14/2011
EROSION CO	NTROL - SLOF			ngriature)		
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
\ <u></u>						
Notes/Actions Formwork for n	s; new bullrails are	being set up.				
			······································		The state of the s	
						The state of the s
To be perform	ed by:			on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
				*
(* Effectiveness Rating: Excellent, Very God	od, Good, Fair, Poor)			
Notes/Actions:				<u>-</u> -
To be performed by:		on	or before:	

	Type of Stabiliz		ptable? <u>s/No)</u>	*Effectiveness of method used	Comments
Ά					
		_			
	,				
		_			
ffectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)	)			
tes/Actions:					
	_				
be performed by:			OI	n or before:	
TRUCTURAL CONTRO	OLS (SEDIMENT BAS	SINS)			
		SINS)			
	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	Comments
Location	Condition of outfall)		*Effect		
neck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	
neck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	
neck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	
neck for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	
heck for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?	*Effect	veness of	
heck for Condition of Basin and Location	Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	veness of	
Location  A  Effectiveness Rating: Excellent,	Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	veness of	
Location  A  Effectiveness Rating: Excellent,	Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	veness of	
Location  A  Effectiveness Rating: Excellent, of es/Actions:	Condition of outfall)  Type of Sediment Basin	Acceptable? (Yes/No)	*Effect	veness of	
Location  A  Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	*Effect	veness of	
Location  Location  A  Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	*Effect	veness of	
Effectiveness Rating: Excellent, otes/Actions:	Condition of outfall)  Type of Sediment Basin  Very Good, Good, Fair, Poor)	Acceptable? (Yes/No)	*Effecti Sedim	veness of ent Basin	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawculting	N/A	No sawcutting involved today.
Dust Control	N/A	No major demolition work involved today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	Yes	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day. Told contractor to clean up debris at the end of each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: Electrical ar	nd Water Lines R	NGPC	S No		
Project No.: HC 10431					11:30AM
Contractor: Royal Contr	racting Co, Inc.		SUNNY		
Verified By: (HDOT Project Inspector/Engineer's Signature)					03/1/2011
EROSION CONTROL - SL	•	_	ngnature)		
Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A					No ground disturbance.
			-		
Notes/Actions: Electrical sub is installing nev	w electrical encl	osure and util	izing existing condu	its.	
To be performed by:		-	on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
				<del>-</del>
(* Effectiveness Rating: Excellent, Very C	Good, Good, Fair, Poor)	<u>'                                    </u>		
Notes/Actions:				
			·	
To be performed by:		on	or before:	

Location	Type of Stabilizati	on (Yes	table? *Effectiver /No) of method		Comments
N/A					
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)				
otes/Actions:	.,,,,,,,,,,				
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			<del></del>		
			on or befor	e:	
RUCTURAL CONTRO	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)	*Effectiveness of	e:	Comments
FRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)		e:	
FRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)	*Effectiveness of	e:	
FRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)	*Effectiveness of	e:	
TRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)	*Effectiveness of	e:	
FRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment   Ad	NS)	*Effectiveness of	e:	
FRUCTURAL CONTRO neck for Condition of Basin and Location	OLS (SEDIMENT BASIN Condition of outfail)  Type of Sediment Ac Basin	NS)	*Effectiveness of	e:	
PRUCTURAL CONTROMERS FOR CONTROMERS IN A CONTROMERS Rating: Excellent,	OLS (SEDIMENT BASIN Condition of outfail)  Type of Sediment Ac Basin	NS)	*Effectiveness of	e:	
PRUCTURAL CONTROMERS FOR CONTROMERS IN A CONTROMERS Rating: Excellent,	OLS (SEDIMENT BASIN Condition of outfail)  Type of Sediment Ac Basin	NS)	*Effectiveness of	e:	
TRUCTURAL CONTRO heck for Condition of Basin and Location  A  Effectiveness Rating: Excellent, otes/Actions:	OLS (SEDIMENT BASIN Condition of outfail)  Type of Sediment Ac Basin	cceptable? (Yes/No)	*Effectiveness of Sediment Basin		Comments
TRUCTURAL CONTRO heck for Condition of Basin and Location  A  Effectiveness Rating: Excellent, Dites/Actions:	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment Basin  (Very Good, Good, Fair, Poor)	vs)	*Effectiveness of Sediment Basin		Comments
TRUCTURAL CONTRO heck for Condition of Basin and Location  A  Effectiveness Rating: Excellent, Dites/Actions:	OLS (SEDIMENT BASIN Condition of outfall)  Type of Sediment Basin  Very Good, Good, Fair, Poor)	vs)	*Effectiveness of Sediment Basin		Comments

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	No major demolition work involved today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	Yes	Wastes are hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

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#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title: _	Electrical and \	Water Lines R	NGPC	C No		
Project No.: _	HC 10431			1:30PM		
Contractor;	Royal Contrac	ting Co, Inc.		SUNNY		
Verified By:	(HDOT Project Inspector/Engineer's Signature)					02/9/2011
EROSION CO	NTROL - SLOP			,		
Loc	ation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
N/A						No ground disturbance.
	_				-	
						-
Notes/Actions Electrical sub is		arking on the	pier. Remov	al of electrical enclos	sures is compl	ete.
To be performe	ed by:			on or be	eiore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
N/A				
(* Effectiveness Rating: Excellent, Very Go	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on (	or before:	

Location	Type of Stabiliz		eptable? *Effectiven es/No) of method	
N/A				
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor	)		
Notes/Actions:				
<del></del>				-
To be performed by:				
го ве реполпед ву			on or before	:
STRUCTURAL CONTRO	OLS (SEDIMENT BAS	SINS)		
Check for Condition of Basin and	•			
Location	Type of Sediment Basin	Acceptable? (Yes/No)	*Effectiveness of Sediment Basin	Comments
I/A				
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, P∞r	)		
Votes/Actions:				
		·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
				The second secon
o be performed by:	~		on or before	:

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	No sawcutting involved today.
Dust Control	N/A	No major demolition work involved today.
Dewatering	N/A	No dewatering activity involved today.

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	No concrete work observed today.
Vehicle/Equipment Fueling	N/A	No equipment fueling observed on site.
Vehicle/Equipment Cleaning	N/A	No equipment cleaning observed on site.
Vehicle/Equipment Maintenance	N/A	No vehicle/equipment maintenance observed on site.
Material Storage	Yes	Materials are mostly stored on pick-up trucks.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	Yes	Demolished enclosures are not on site. Wastes are hauled away from job site each day.

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:					NGPO	No
Project No.:	H. C. 10239					12:12pm
Contractor:	Mocon Corpo					sunny
Verified By:	Joe Cheng	FL			Date:	02/22/11
vormed by:	(HDOT Proje	ct Inspector/	Engineer's S	Bignature)		
EROSION CO	NTROL - SLOP	PES/EXPOSI	ED AREAS			
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None						
						<u> </u>
	,		_			
Notes/Actions Pier 39 Fence n		ground distu	rbance anticip	pated in this project.		
	······································					
To be perform	ed by:			on or b		= man

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				
		<del>-</del>		
(* Effectiveness Rating: Excellent, Very G	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

	Type of Stabiliza	Acce (Ye	ptable? *Effective s/No) of method	ness dused	Comments
None					
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Pocr)				
o be performed by:			on or befo	re:	
STRUCTURAL CONTR	OI C (CEDIBAENIT DAC	inie)			
STRUCTURAL CONTRO Check for Condition of Basin and	OLS (SEDIMENT BAS	INS)			
STRUCTURAL CONTROC Check for Condition of Basin and Location	OLS (SEDIMENT BAS Condition of outfall)  Type of Sediment Basin		*Effectiveness of Sediment Basin		Comments
Check for Condition of Basin and	Condition of outfall)  Type of Sediment	Acceptable?			Comments
Check for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?			Comments
Check for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?			Comments
Check for Condition of Basin and Location	Condition of outfall)  Type of Sediment	Acceptable?			Comments
Check for Condition of Basin and Location  None	Type of Sediment Basin	Acceptable?			Comments
Location  None  Effectiveness Rating: Excellent,	Type of Sediment Basin	Acceptable?			Comments
Location  None  Effectiveness Rating: Excellent,	Type of Sediment Basin	Acceptable?			Comments
Location  None  Effectiveness Rating: Excellent,	Type of Sediment Basin	Acceptable?			Comments
	Type of Sediment Basin	Acceptable?			Comments

Activity	Adequate BMPs? (Yes/No)	Comments
Sawcutting	N/A	
Dust Control	N/A	
Dewatering	N/A	
***		

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Perimeter Fencing at Honolulu and Kalaeloa Barbers Point

Project Title:	Perimeter Fen	Perimeter Fencing at Honolulu and Kalaeloa Barbers Point				lo
Project No.:	H. C. 10239			11:17am		
Contractor;	Mocon Corpo					sunny
Verified By:	Joe Cheng (HDOT Projec	f2	/Engineer's S	Nanatura	Date:	03/10/11
EROSION CO	NTROL - SLOP			oignature)		
Loc	cątion	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None						
				-		
		-	_			
Notes/Actions Pier 1 Fence me		round distur	bance anticipa	ated in this project.	J	
	. COLUMN COLOR					
property or the same of the sa	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		·	- AND -		
To be perform	ed by:			on or b	efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None		}		
(* Effectiveness Rating: Excellent, Very God	od, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabilizat		otable? *Effective s/No) of method	ness used	Comments
None					
(* Effectiveness Rating: Excellent,	Very Good Good Eair Poorl			_	
	, very Good, Good, Fair, Foor)				
Notes/Actions:					
To be performed by:			on or hofor	·O.	
To be performed by:				e	
STRUCTURAL CONTR	OLS (SEDIMENT BASI	NS)			
(Check for Condition of Basin and	I Condition of outfall)				
Location	Type of Sediment A Basin	\cceptable? (Yes/No)	*Effectiveness of Sediment Basin		Comments
None	Baoin	1100/110/			
				<del></del>	
		-			
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poo-)				
Notes/Actions:					
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To be performed by:			on or befor	.6;	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawculting	N/A	
Dust Control	N/A	
Dewatering	N/A	

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Perimeter Fencing at Honolulu and Kalaeloa Barbers Point					No
Project No.:	H. C. 10239					02:30pm
Contractor:	Mocon Corpo	ration				sunny
Verified By:	Joe Cheng	in		_	Date:	03/22/11
(HDOT Project Inspector/Engineer's Signature)  EROSION CONTROL - SLOPES/EXPOSED AREAS						
Lac	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments
None						
			}			-
						-
Notes/Actions New Post Holes	3: s - Dirt removed	from site as h	noles are being	g drilled.		
					APRIATION OF THE APPRICA	
To be perform	ed by:				efore:	

Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
None				
-				
(* Effectiveness Rating: Excellent, Very G	ood, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabiliza		otable? *Effectivenes s/No) of method us	s Comments ed
None				
(* Effectiveness Rating: Excellent	Very Good Good Fair Poor)			
Notes/Actions:	very 2000, 2000, 1 am, 1 cory			
To be performed by:			on or hefore.	
10 50 poriorinea 5y				
STRUCTURAL CONTRO (Check for Condition of Basin and		INS)		
Location	Type of Sediment /			Comments
Nama	Basin	(Yes/No)	Sediment Basin	
None				
	<del> </del>			
* Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)			
	Very Good, Good, Fair, Poor)			
Notes/Actions:	Very Good, Good, Fair, Poor)			
Notes/Actions:				
		* ************************************		

Activity	Adequate BMPs? (Yes/No)	Comments	
Sawcutting	N/A		
Dust Control	N/A		
Dewatering	N/A		
			_

Activity	Adequate BMPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	N/A	No vehicle or equipment fueling on site.
Vehicle/Equipment Cleaning	N/A	No vehicle or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicle or equipment maintenance on site.
Material Storage	N/A	No material storage on site.
Spill Prevention/Control	N/A	
Waste Storage/Disposal	N/A	
	T also	

#### SITE-SPECIFIC COMPLIANCE, BMP, POLLUTION PREVENTION PLAN

#### INSPECTION AND MAINTENANCE REPORT FORM

(TO BE COMPLETED BEFORE COMMENCEMENT OF GRADING OR SITE-WORK AND THEN EVERY TWO WEEKS FROM OCTOBER THROUGH APRIL, OTHERWISE, BI-MONTHLY)

Harbors Division will not allow grading or site-work to commence until the project engineer or qualified project inspector have inspected the construction site to determine if the plans for site-specific compliance, BMPs and pollution prevention are implemented correctly and in the right locations.

Project Title:	Repair Piles at	Pier 40, Hond	NGPC	C No.	N/A		
Project No.: _	HC 10440						12:35 pm
Contractor:		American Marine Corporation					sunny
Verified By:	Lauren Tokura		en m tst		Date:		03/22/11
	(HDOT Project Inspector/Engineer's Signature)						
EROSION CO.	NTROL - SLOP	ES/EXPOSI					
Loc	cation	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)		Comments
None						N/A	
						-	
							· <del>_</del> -
			:				
		<u> </u>					
	-			·· <u>···</u>	-		
			_			<u></u>	
Notes/Actions	Notes/Actions:						
						·	
	7704 (character) (5°			Alder to the state of the state			and the second s
) ————————————————————————————————————					<b></b>		
To be perform	ed by:			on or b	etore:		

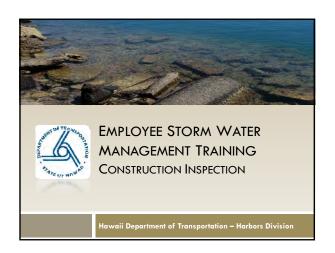
Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
Around the sheetpile	Floating Silt Curtain	Acknowledge d	Fair	
Under the repair area	Raft	Acknowledge d	Fair	A raft is placed under the repair area to catch chippings.
(* Effectiveness Rating: Excellent, Very	Good, Good, Fair, Poor)			
Notes/Actions:				
To be performed by:		on	or before:	

Location	Type of Stabiliza	Acce (Ye	ptable? *Effectiv s/No) of metho	eness od used	Comments
None					N/A
			_		
			-		
Effectiveness Rating Excellent,	Very Good, Good, Fair, Poor)				
otes/Actions:					
be performed by:	<u>_</u>		on or bef	ore:	
TRUCTURAL CONTRO		INS)			
Location	Type of Sediment	Accentable?	*Effectiveness		
	Basin	(Yes/No)	Sediment Bas		Comments
Vone				N/A	
Effectiveness Rating: Excellent,	Very Good, Good, Fair, Poor)			<u> </u>	
otes/Actions:					
					and of the second banks
and the state of t				allar, mar (FRIS) i diamente	and the second of the second s
o be performed by:			on or bef	ore:	

Activity	Adequate BMPs? (Yes/No)	Comments
Sawculting	N/A	
Dust Control	N/A	
Dewatering	N/A	
Demolition Work	Acknowledged	A raft is placed under the repair area to catch any overspill of chipped materials.

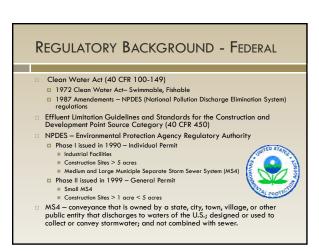
Activity	Adequate 8MPs? (Yes/No)	Comments
Concrete Washout/Waste	N/A	
Vehicle/Equipment Fueling	Yes	Drip pans present, spill kit on hand.
Vehicle/Equipment Cleaning	N/A	No vehicles or equipment cleaning on site.
Vehicle/Equipment Maintenance	N/A	No vehicles or equipment maintenance on site.
Material Storage	N/A	
Spill Prevention/Control	Yes	Spill kit on site.
Waste Storage/Disposal	N/A	
	A Paris de la Constantina del Constantina de la	

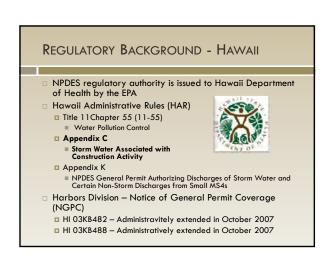
### APPENDIX Q HARBORS CONSTRUCTION PLAN REVIEWER AND INSPECTOR TRAINING RECORDS

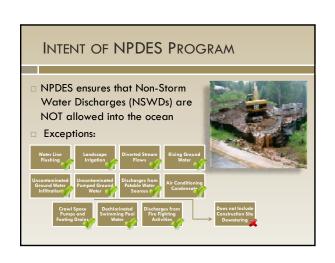


### INTRODUCTION Hawaii Department of Transportation – Harbors Division Engineering Branch Weston Solutions, Inc. Mr. David Johnson Mr. Mark Ambler PE/PMP

# Regulatory Background Small MS4 General Permit Requirements DOT-HARBORS Construction Program Construction Site Stormwater Runoff Control Plan Review Site Inspections and Video BMPs for Construction Sites in Hawaii Enforcement Actions Reporting Educational Outreach Contact Information Question/Comments

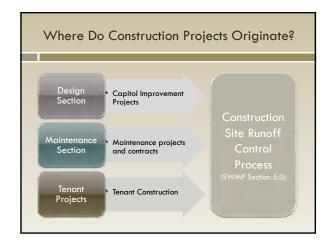


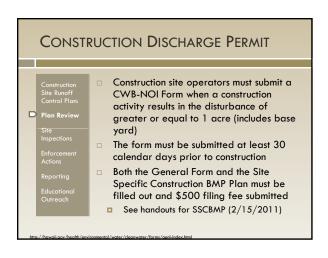


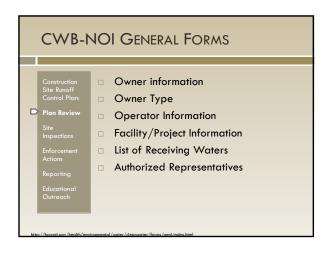


# SMALL MS4 GENERAL PERMIT REQUIREMENTS Minimum Control Measures Public Education & Outreach Public Participation & Involvement Illicit Discharge Detection & Elimination Construction Site Runoff Control Post-Construction Runoff Control Pollution Prevention & Good Housekeeping

# Defined in Section 5.0 of the Storm Water Management Plan The purpose is to prevent construction projects from polluting storm water during and after construction The program includes: Plan Review Site Inspections Enforcement Reporting Educational Outreach

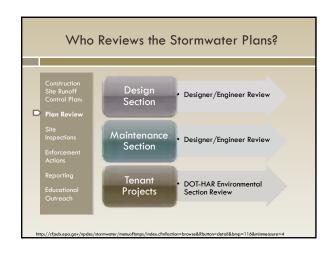


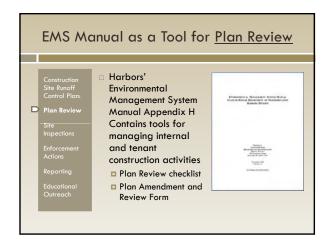








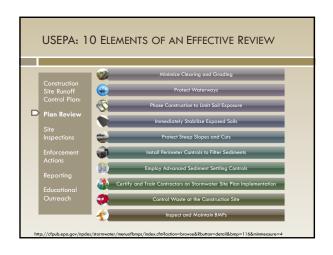


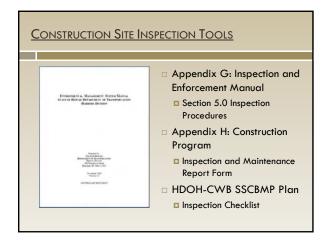




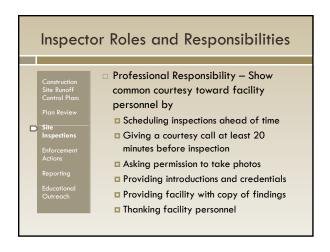
,	cific Compliance, BMP, Poli on Plan Amendment Review	
Construction Site Runoff Control Plan: Plan Review Site Inspections Enforcement Actions Reporting Educational Outreach	For amendment of Construction Plan and NOI Forms Responsibility depends on phosof process Planning Construction Post-Construction Controls No grading or site work will commence until Harbors has verified that regs are met. File with Review Checklist	







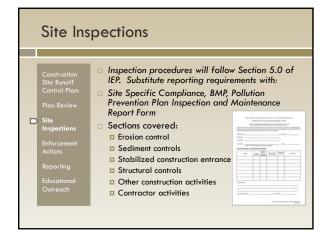
# Construction Site Inspections Construction Site Inspections are dictated by Harbors EMS Manual Appendices G & H Inspections will occur after approval of plans to ensure that BMPs have been installed and maintained Contractor will not be allowed to begin grading or site work until Harbors has documented inspection. Inspections will continue throughout the life of the project. Rainy season (Oct-Apr): every two weeks Dry Season (May-Sept): every two months







# Construction Pre-Inspection Construction Pre-Inspection If tenant or contractor is hostile, Harbor police can escort Plan Review Site Inspections Enforcement Actions Reporting Educational Outreach Construction Pre-Inspection If tenant or contractor is hostile, Harbor police can escort A conference may allow tenant/operators to locate additional documents or key personnel A site representative must accompany the inspector to answer questions and describe operations





Video

#### Video Review □ 1st Priority - Minimize □ Erosion Control Measure - Source prevention □ 2nd Priority - Prevent pollution runoff from □ Sediment Control Measure - Stops leaving site pollution after it has □ Update BMPs when eroded there is a change in □ Tracking Controls – ■ Construction process Prevents/minimizes ■ Environment sediment from leaving site on vehicles





Location	Date Disturbed	Erosion Control Measure established	Type of Erosion Control used	Acceptable (yes/no)	Comments  Fexce is damaged and
North perimeter	2/18/10	yes	Sílt Fence	No	maintenance records not provided
otes/Actions; Damaged area of silt fe	ence is allow	ina sedime	nt to leave proper	tu. Contrac	stor must repaír
Silt fence.		J		Ų.	







Location	Type of Control (Silt fence, inlet protection, etc.)	Acceptable? (Yes/No)	*Rate Effectiveness of Control	Comments
Nímítz Gate	Drain Inlet Protection	No	Poor	Not maintained, breached control
ectiveness Rating: Excellent, Very G	ood, Good, Fair, Poor)			
es/Actions: Drain inlet protection is	insufficient. Immedi	late replacem	uent/rebair rea	uíred.
	construction		3/4	
be performed by:			or before:	































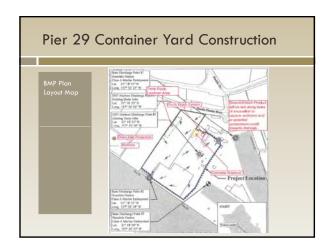






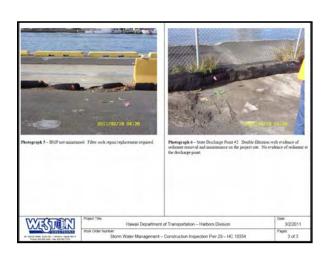


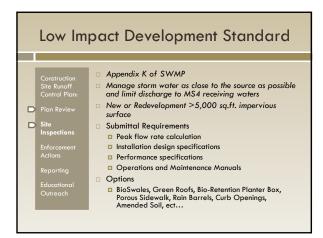


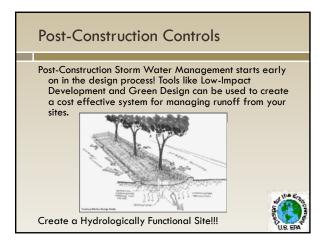






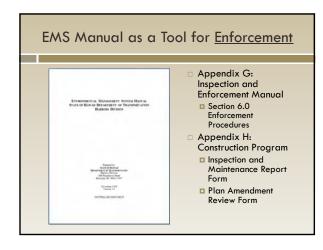


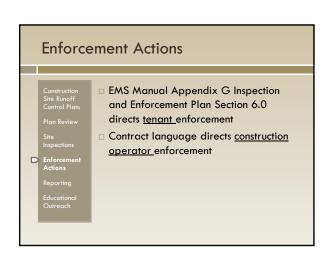


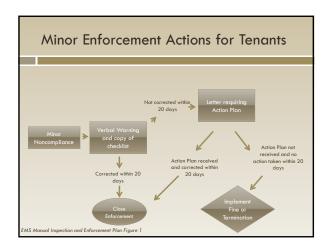


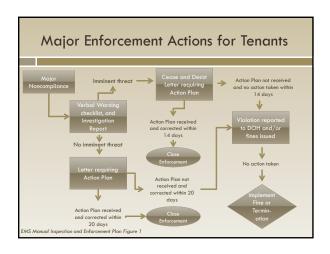


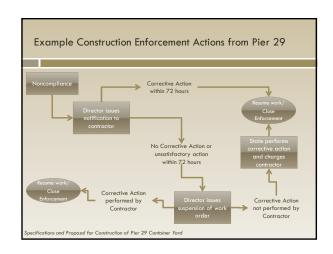


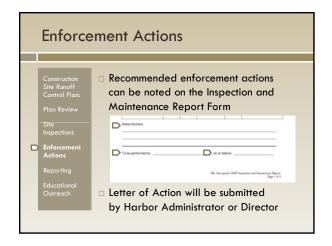




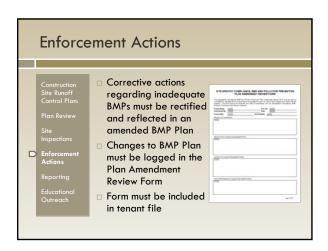




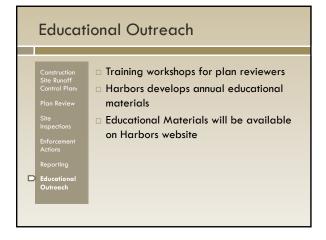


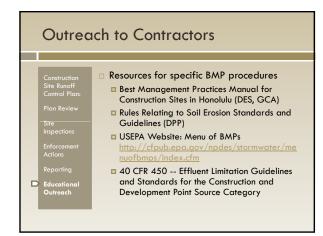


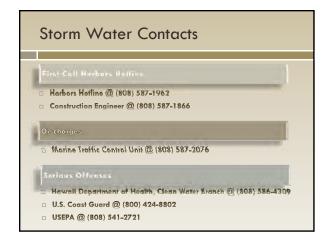
Enforcement Actions				
Regulatory Mechanisms	Penalties for Lack of Compliance (dependant on severity of violation)			
Hawaii Administrative Rules (HAR) Hawaii Revised Statutes (HRS) Tenant Leases/Revocable Permits / Construction contracts 40 CFR - Clean Water Act & NPDES Other Applicable State & Federal Regulations	Verbal Warnings  Written Notices  Citation with Monetary Fines  Stop Work Orders  Abatement by Harbors Division with Reimbursement by the Responsible Party  Lease Termination  Referral to HDOH or Other Appropriate Regulatory Agency			



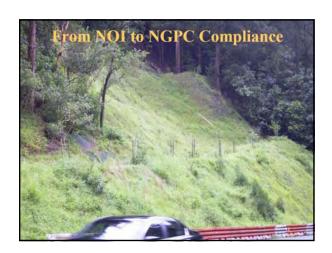












### References

- http://megi.bz/wp-content/uploads/2009/04/oil-runoff-into-storm-drain.jpg
- http://www.octopuscarwash.com/IMG_0014.jpg
- http://www.californiagreensolutions.com/images/Parker-powerwash328.jpg
- http://s3.images.com/huge.70.351214.JPG
- $http://www.victorystore.com/signs/property_management/images/dumping-1.gif$
- $http://www.ars.usda.gov/sp2userfiles/ad_hoc/1900000SafetyHealthandEnvironmentalTrainslations and the state of the state$ ing/graphics/ChemicalHumor.jpg
- http://urbanneighbourhood.files.wordpress.com/2009/06/greenroof3.jpg
- http://www.landcareresearch.co.nz/research/built/liudd/images/DSCN2718.JPG
- http://www.multi-clean.com/lcons/Dfe%20icon.aif
- http://www.northsydney.nsw.gov.au/resources/images/street_cleaner.jpg
- http://www.suntreetech.com/files/Images/Products/Curb-Inlet-Protector/curb%20inlet%20protector%204.jpg

# References

- http://images.google.com/imgresilingurl=http://www.hinkleycenter.com/photos/hazwaste/images/hazwaste e%2520%281%29.jpg&imgrefurl=http://www.hinkleycenter.com/photos/hazwaste/him&usg=_DOdsrhoNz ELd0*hl87DTTXD; x4=8h=333&w=499&sz=45&hl=en&stort=2&um=1&thotl==: QrallSKfeL2V9M&thoth=878thothor=130&prev=/images%3fq%3Dimproper%28storage%28of%28chemical s%26imgrz%3Dm%26imgrtbs%3Dz%26hl%3Den%26um%3D1
- http://images.google.com/imprestilingurl=http://industrialcleaningcorp.com/images/dson1656.jpg&limgrefurl=http://industrialcleaningcorp.com/images/dson1656.jpg&limgrefurl=http://industrialcleaningcorp.com/Pressure_Washing.html&usg=_NbD2NKVx5mHQ5_rC7Kl5scQHASc=&h=2112&w=2816&sz=1102&hl=enistori=72&um=1&thoid=5aVjgm_k410tMx&thoh=113&thow=150&prev=/mages/%-FG%3Dpressure%2&washing%2&equipment%26ndsp%3D18%26ht%3Den%26sa%3DN%26start%3D54%26um%3D1
- http://www.sbprojectcleanwater.org/images/powerwashing/bvb2.jpg
- http://www.martinatc.com/images/Picture%20004.jpg
- http://www.fluid-tech-inc.com/template_assets/images/air8.jpg
- http://images.google.com/imgres?imgurl=https://www.boyareagreersolutions.com/productphotos/page-5-400.jpg/imgrefurl=https://www.boyareagreersolutions.com/productphotos/page-5-400.jpg/imgrefurl=https://www.boyareagreensolutions.com/pressure_washin_althml&sug=_Rkpl 12/F54E4-wc-q.lholog_0g8=8-be108 | xe-0008=ce75hin_ensetsur=18.thmle-1-QADaVDUbH.hil.Mis.thoh=1358.thohw=908.prev=/mages%3Fq%3DPressure%2Bwashing%2Bcontainmenf%26gbb%3D2%26hi%3Den
- http://www.ci.manteca.ca.us/pwt/engdiv/sdeng/img/cw2.jpg

### References

- http://www.miraclepowerwashing.com/images/construction-heavy-equipment-cleaning.png
- http://www.hydroboss.com/Images/action1.jpg
- http://upload.wikimedia.org/wikipedia/commons/3/3c/Drain_runoff_in_Kharkiv.jpg
- http://asianautoworks.com/images/asianautoworks_oilchange.jpg
- http://www.sea-way.org/blog/WWFad BIG01.JPG
- http://www.globalspec.com/NpaPics/99/349038_062220093865_ExhibitPic.jpg
- http://www.pelicanparts.com/techarticles/911_oil_return_tube/911_oil_return_tube_pic14_big.JP G
- http://www.ferret.com.au/odin/images/210671/Spill-Station-Australia-provides-tips-for-buying-spill-control-equipment.jpg

### References

- http://www.threesheetsnorthwest.com/files/2009/02/sailboatpressurewashrep.jpg

- http://www.bravnstoner.com/exchore/drainer/actives/govanus-pollution-0409.jpg
  http://www.bravnstoner.com/exchore/actives/govanus-pollution-0409.jpg
  http://www.bravnstoner.com/bravnstoner/archives/govanus-pollution-0409.jpg
- http://cache1.asset-cache.net/sc/74877867.jpg?v=1&c=IWSAsset&k=2&d=17A4AD9FD89CF193395A77F763DF9CD78E336CAA8630FD03 A7CFF610D584FC25

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  http://cxyu.edu/eoh/CMC/images/genchemtori.jpg

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  http://www.hodveeldibb.com/yoboc_site_odmin/ossen/images/83_Point_Loder_0074102510_large_JPG

  http://www.hodveeldibb.com/yoboc_site_odmin/ossen/images/83_Point_Loder_0074102510_large_JPG

  http://www.mccog.org/environment/stormwcter-workhop/mages/Stormwcter_Retention_Pond1.jpg

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- http://impsqs.cogis.com/impgrafilings/imbp;//www.couries/ loward.com/long/impgrafilings/imbps//www.couries/ loward.com/long/impgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbgrafilings/imbg

# Weston Solutions, Inc

Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

# HDOT HARBORS STORMWATER MANAGEMENT EMPLOYEE TRAINING (ENGINE BR.) JUNE 28, 2011



# SIGN-IN SHEET

				VOLUNTEER FOR
AFFILIATION	PRINT NAME	SIGNATURE	EMAIL	CLEAN-UP?
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## Weston Solutions, Inc

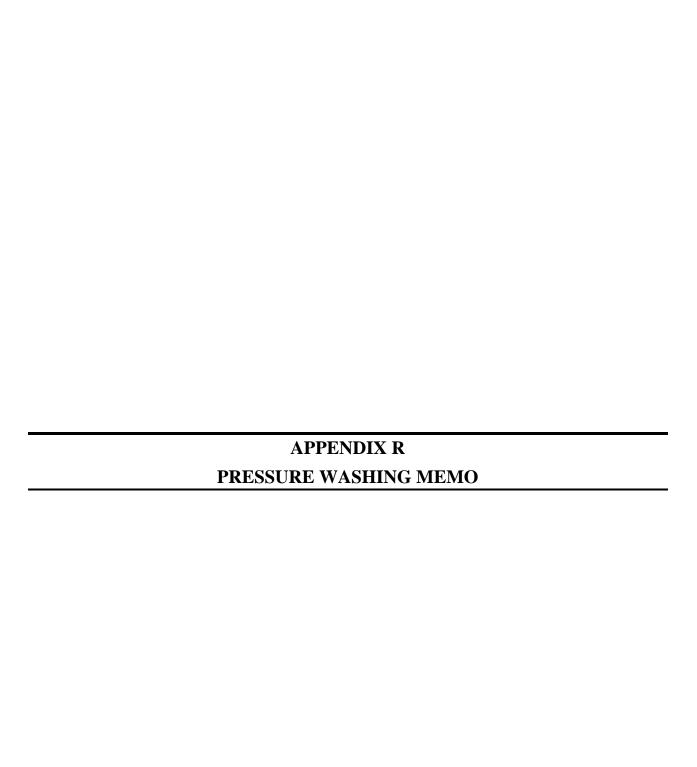
Suite 2301 841 Bishop Street Honolulu, HI 96813 808-275-2900 Fax: 808-585-7378

# HDOT HARBORS STORMWATER MANAGEMENT EMPLOYEE TRAINING (ENGINEER &G BC) JUNE 28, 2011



# SIGN-IN SHEET

AFFILIATION	PRINT NAME	SIGNATURE	EMAIL	VOLUNTEER FOR CLEAN-UP?
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WAR-EP	DEAN WATTER		deer water Quanin	
11	SANDED ROSSETTER		Sandra, C. ross, Alterno	J
HAR-ESP	SHARLIYN JHEDA	Bylan	Sharilyn. S. ikede Chanac	



#### REFERENCE NO.: EP-001

TITLE: Procedures for Pressure Washing the Sidewalk and Walls at PIER 2 Cruise Terminal Building (Washing Takes Place as Necessary)

## 1.0 Purpose

This procedure describes the steps to be taken when the walls and sidewalks of the Pier 2 Cruise Terminal are in need of washing due to accumulation of dust and bird droppings.

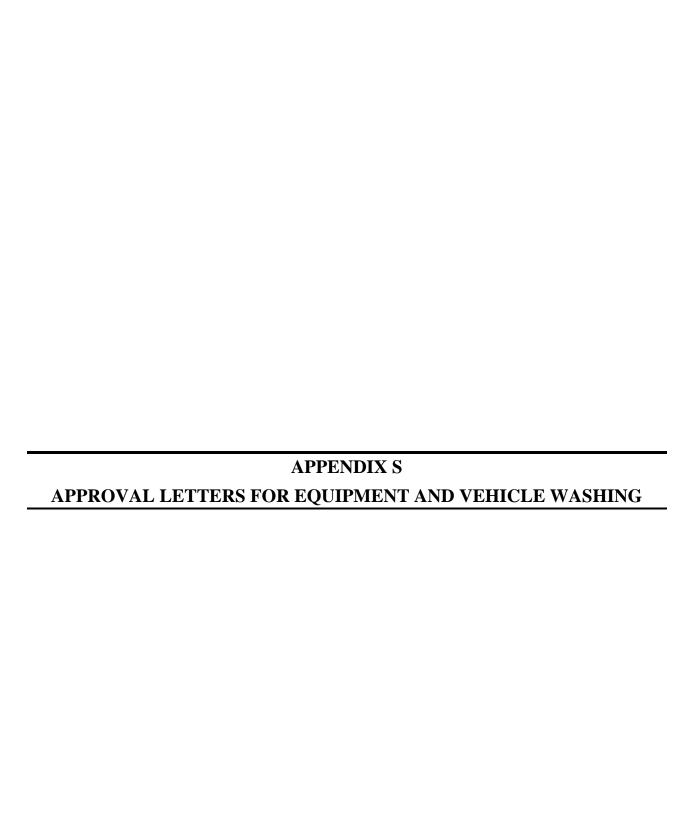
#### 2.0 Definitions

None.

#### 3.0 Procedures

- Secure the three (3) drain inlets with booms
   NOTE: DRAIN INLETS ARE AT LEAST 120 FEET AWAY FROM WHERE
   THE PRESSURE WASHING IS TO TAKE PLACE.
- 2. Pre trip pressure washer at Base yard and top off with fuel before going to Pier 2.
- 3. Hook up pressure washer to the water hose at Pier 2 Mauka end on the Diamond Head side of the building.
- 4. Have the street sweeper and operator stand by to pick up wash water and any debris while pressure washing.
- 5. Have employees standing by with squeegees to push and direct the wash water and any debris away from the sidewalk/walls that is being cleaned and into the open area parking lot for the street sweeper to pick up.
- 6. Start pressure washer and start pressure washing the walls and then the sidewalk from the Mauka end and work towards the Makai end. NOTE: The operator cannot regulate the pressure washer's psi, but the operator is able to control the pressure washer's water flow with the washer wand's on/off trigger. This allows the pressure washer operator to instantly shut off the water flow should the street sweeper not be able to keep up with the operation.
- 7. While pressure washing the sidewalk, the operator of the pressure washer is directing the wash water and any debris into the path of the street sweeper. Other employees with squeegees are also pushing and guiding the wash water into the path of the street sweeper.
- 8. While the employees are pressure washing, the street sweeper is continuously making passes with its conveyor belt running, main and side brooms down and in continuous operation. This allows the street sweeper to pick up any debris and wash water from the pressure washing operation.
  - NOTE: The street sweeper's sweeping path is 12 feet wide.
- 9. After pressure washing this area, the operator secures the water hose and the pressure washer, and loads it into the state pickup truck.
- 10. The other employees with squeegees continue pushing and directing the wash water into the path of the street sweeper until all water and debris have been

- picked up by the street sweeper. If necessary, the street sweeper will make a second pass to pick up anything missed during the first pass.
- 11. Remove the three (3) drain inlet protection booms.
- 12. The street sweeper is driven back to the Harbors Division Sand Island Base yard, where the wash water and any debris are dumped into the State's wash rack.
- 13. The wash rack's recycled water is pumped out, as need, by a contractor who is responsible to dispose of the water in compliance with EPA standards.
- 14. The solid waste from the wash rack is removed and disposed at H-POWER by Harbors employees.





# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION 79 S. NIMITZ HIGHWAY HONOLULU, HAWAII 96813

IN REPLY REFER TO: RS 12.0364 HAR-E 1715.12

GLENN M. OKIMOTO

DIRECTOR

Deputy Directors

JADE T. BUTAY

FORD N. FUCHIGAMI

RANDY GRUNE

JADINE URASAKI

December 7, 2011

Mr. Greg Hamilton Windward Moving and Storage Company, Inc. 5 Sand Island Access Road, B929-E Honolulu, Hawaii 96819

SUBJECT: Vehicle Washing Conditional Approval

Revocable Permit H-11-2699

Dear Mr. Hamilton:

We have reviewed your request, dated October 31, 2011, to wash company vehicles onsite at the KMR facility associated with the subject Revocable Permit. The Storm Water Pollution Prevention Plan (SWP3) Mobile Wash BMPs by J/R Environmental Co., dated October 27, 2011, and additional information furnished, dated November 23, 2011, have been reviewed.

Based on the information provided, we hereby grant approval of your washing activities for a period starting from the date of this letter and expiring at midnight on December 31, 2012, subject to the following conditions:

Condition 1 - All washing activities are to be performed as described in the tenant submittals referenced above.

Condition 2 – All activities must comply with Hawaii Revised Statutes § 342D-50(a), specifically, "No person, including any public body, shall discharge any water pollutant into State waters, or cause or allow any water pollutant to enter state waters...".

Condition 3 – All activities must adhere to the Environmental Protection Agency (EPA) Stormwater BMP relating to Municipal Vehicle and Equipment Washing.

Condition 4 – Any enforcement actions and/or monetary fines resulting from non-compliance with the Hawaii Revised Statutes or EPA Stormwater BMPs will be the sole responsibility of the tenant initiating the rinsing activities and not the Harbors Division.

Condition 5 – This approval only applies to Windward Moving and Storage Company vehicles and only applies to the facilities at KMR Building 929-E as specified in the submitted map.

Condition 6 – Wash and disposal records referenced in your request must be provided for the first month of approved washing. All subsequent documentation must be available for review onsite during your regular scheduled tenant inspection.

Condition 7 – This approval may be revoked at any time at the discretion of the Harbors Division.

If you have any questions, please contact Mr. Randal Leong of the Harbors Division Engineering Environmental Section at (808) 587-1962.

Very truly yours,

Carter W. S. Luke, P.E.

Engineering Program Manager

bc: DEP-P, DEP-H, HAR-PM, HAR-O

**R**L:jmo

