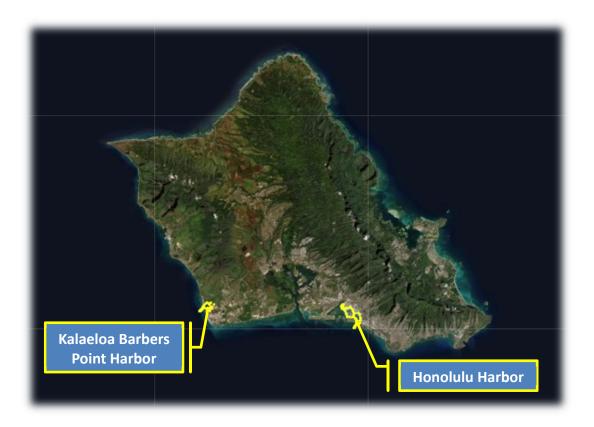
## State of Hawaii Department of Transportation Harbors Stormwater Compliance

## 2023 ANNUAL REPORT

HONOLULU HARBOR (HI22KG710)

## KALAELOA BARBERS POINT HARBOR(HI22KG709)



January 28, 2024



MĀLAMA I KE AWA KAI - Protect Our Harbor Waters

# 2023 Annual Report

## Honolulu Harbor (HI22KG710) Kalaeloa Barbers Point Harbor (HI22KG709)

## Prepared For:

State of Hawaii Department of Transportation
Harbors Engineering Branch Environmental Section
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### Prepared By:

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#### **Certification Page**

"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, the information submitted is, to the best of my knowledge and believe, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowingly violations."

Mosato	Jan 25, 2024
Signature	Date

Printed Name: NIKO G. SALVADOR

Title: HDOT Harbors Engineering Program Manager

2023 Annual Repor Department of Transportation Harbors Stormwater Complianc Honolulu Harbor and Kalaeloa Barbers Point Harbor, State of Hawa

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#### LIST OF ACRONYMS AND ABBREVIATIONS

AG Attorney General

AR Annual Report

AMS Asset Management System

BMP Best Management Practice

CCH City and County of Honolulu

CIP Capital Improvement Project

CSRCP Construction Site Runoff Control Program

CWA Clean Water Act

CWB Clean Water Branch

DPP Department of Planning and Permitting

ERP Enforcement Response Plan

ENV Department of Transportation Office of Environmental Compliance

GIS Geographic Information System

HAR Hawaii Administrative Rules
HAR-E Harbors Engineering Branch

HAR-EE Harbors Engineering Branch Environmental Section

HAR-EP Harbors Engineering Branch Planning Section

HAR-O Harbors Oahu District

HAR-PM Harbors Property Management Staff

HAR-S Harbors Staff Services Office

HAR-SI Harbors Management Information Systems Staff

HDOH State of Hawaii Department of Health

HDOT State of Hawaii Department of Transportation

HRS Hawaii Revised Statutes

IDDE Illicit Discharge Detection and Elimination

IWDP Industrial Wastewater Discharge Permit

KBPH Kalaeloa Barbers Point Harbor

MCM Minimum Control Measure

MEP Maximum Extent Practicable

MS4 Municipal Separate Storm Sewer System

NGPC Notice of General Permit Coverage

NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

O&M Operations & Maintenance

ORIIP Outfall Reconnaissance Inventory and Inspection Program

P2/GH Pollution Prevention and Good Housekeeping

POW Protect Our Water

ROE Right-of-Entry

SIDR Suspected Illicit Discharge Reporting

SSS O&MP Storm Sewer System Operations & Maintenance Program

SWMP Stormwater Management Plan

TIM Harbors Tenant Inspection Manual

TIP Tenant Inspection Program

TRP Tenant Revocable Permit

USEPA United States Environmental Protection Agency

January 2024

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MS4 and Permanent BMP Inspection Log
Storm Drain Inspection and Cleaning
Street Sweeper Log

## **CONTACT PHONE NUMBERS**

State of Hawaii Department of Transportation	
Harbors Environmental Hotline	808-587-1962
Harbor Traffic Control Unit (available 24 hours)	808-587-2076
State of Hawaii Department of Health	
Clean Water Branch	808-586-4309
Hazard Evaluation & Emergency Response	808-586-4249
Solids and Hazardous Waste Branch	808-586-4226
City and County of Honolulu	
Environmental Concern Line	808-768-3300
Storm Drain Permit Connection	808-768-8106
Industrial Discharges to Sanitary Sewer	808-768-8210
Sanitary Sewer Spills/Trouble	808-768-7272
United States Coast Guard Marine Safety Office	808-535-3222
United States Environmental Protection Agency, Region 9	415-947-8000

#### 1.0 EXECUTIVE SUMMARY

This report summarizes performance metrics, accomplishments, and compliance with the 2023 State of Hawaii Department of Transportation (HDOT), Harbors Stormwater Management Plan (SWMP), Hawaii Administrative Rules (HAR) 11-55, Appendix K requirements for the Honolulu Harbor and Kalaeloa Barbers Point Harbor (KBPH) on Island of Oahu, State of Hawaii.

The State of Hawaii Department of Health (HDOH), Clean Water Branch (CWB) is reviewing the HDOT Harbors (hereinafter referred to as "Harbors") two Notice of General Permit Coverages (NGPC) under HAR 11-55, Appendix K for their Small Municipal Separate Storm Sewer Systems (MS4s) submissions. The new permit file numbers HI22KG710 (formerly HI 03KB482) for Honolulu Harbor and HI22KG709 (formerly HI 03KB488) for KBPH authorize discharges of stormwater and certain non-stormwater discharges to the adjacent receiving waters.

The six minimum control measures (MCM) in the updated Harbors stormwater program have been determined to be effective in reducing the discharge of pollutants in stormwater. The small MS4 cleaning and street sweeping programs continue to prevent debris from entering adjacent receiving waters. The persistent training/outreach and inspection programs continue to promote and help Harbors employees, tenants, consultants, contractors, and general public with the following.

- Identify areas that could potentially generate illicit discharges and implement proper Best Management Practices (BMPs) to minimize or prevent such incidents from occurring.
- Identify and properly report a suspected illicit discharge, and properly manage potential pollutants at their source to minimize negative impacts to the surrounding environment.

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#### 2.0 GENERAL NPDES PERMIT INFORMATION

**State of Hawaii** 

**NPDES Program Permit Numbers:** 

Honolulu Harbor: HI22KG710 (formerly HI 03KB482)

Kalaeloa Barbers Point Harbor: HI22KG709 (formerly HI 03KB488)

Annual Report for Permit Year: 2

Reporting Period: January 1, 2023 – December 31, 2023

**Permittee (Owner/Operator) Details:** 

Organization: State of Hawaii

Department of Transportation

Mailing Address: State of Hawaii, Department of Transportation

869 Punchbowl Street Honolulu, HI 96813-5097

Owner: Edwin H. Sniffen

Title: Director of Transportation

Telephone Number: 808-587-2150

Email: edwin.h.sniffen@hawaii.gov

**Recipients:** 

Director of Health Clean Water Branch

Environmental Management Division State of Hawaii Department of Health

P.O. Box 3378

Honolulu, HI 96801-3378

**Prepared By:** 

Company: EnviroServices & Training Center, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Phone: 808-839-7222

On March 7, 2003, Harbors filed a Notice of Intent (NOI) for both Honolulu Harbor and KBPH for the Small MS4s on the Island of Oahu. NGPCs for these two storm drainage systems were initially granted by the HDOH in two letters dated May 19, 2003. Coverage for both harbors was extended through HDOH administrative extension dated December 9, 2013, and December 2, 2016, at which time HDOH renewed NGPCs for both Harbors. The revised HAR 11-55 Appendix K was promulgated by HDOH on January 15, 2022. In response, Harbors updated the SWMP and submitted with new NOIs on May 11, 2022 to obtain coverage under the revised NGPC, which were granted by the HDOH in two letters dated March 14, 2023.

The general permit requires the permittee to:

- 1. Submit a SWMP within 120 calendar days of the date of the NGPC.
- Develop, implement, and enforce the SWMP designed to reduce the discharge of
  pollutants from their Small MS4 to the maximum extent practicable (MEP) in order
  to protect adjacent harbor water quality.
- 3. Submit a new NOI with filing fee and obtain a new NGPC for any significant changes to the information submitted in the NOI. This NGPC cannot be modified.
- 4. Submit the annual report (AR) by January 28 of the following year in accordance with HAR 11-55, Appendix K to the HDOH CWB.

This document fulfills the Harbors requirement to submit an AR for the 2022 SWMP prior to the deadline of January 28, 2024.

#### 2.1 PERMIT COMPLIANCE ASSISTANCE

The permittee relies on the entities listed in Table 1 to satisfy some of its National Pollutants Discharge Elimination System (NPDES) permit obligations.

**Table 1. NPDES Permit Compliance Assistance** 

Role	Responsibilities
State of Hawaii Department of the Attorney General (AG)	<ul> <li>Makes changes to related Hawaii Revised Statues (HRS) and HAR when necessary.</li> <li>Serves as primary interface with United States Environmental Protection Agency (USEPA) Region 9 when necessary.</li> <li>Provides legal authority and support to the approved Enforcement Response Plan (ERP).</li> </ul>
State of Hawaii Department of Transportation Office of Environmental Compliance (ENV)	Ensure HDOT complies with all federal, state, and local environmental regulations and permit, relating to MS4 compliance.

**Table 1. NPDES Permit Compliance Assistance** 

Role	Responsibilities
City & County of Honolulu (CCH) Department of Planning & Permitting (DPP) Site Development Division Wastewater Branch	Authorizes and tracks drainage connections to its sanitary sewer system through Industrial Wastewater Discharge Permit (IWDP).
Construction Managers (Various Firms)	<ul> <li>Conducts construction inspections.</li> <li>Ensures construction sites comply with applicable environmental regulations.</li> </ul>
Design Consultants (Various Firms)	Incorporates stormwater management program requirements in applicable Harbors facilities design projects.
Harbors Oahu District (HAR-O)	<ul> <li>Implements the Storm Sewer System Operations and Maintenance Program (SSS O&amp;MP).</li> <li>Use Cityworks to keep track of relevant activities.</li> <li>Provides suggestions to improve the program, including purchasing new equipment.</li> <li>Participates in and assists with enforcement.</li> </ul>
EnviroServices & Training Center, LLC	<ul> <li>Assists Harbors with:         <ul> <li>Providing information to the public.</li> <li>Tenant outreach and education.</li> <li>Employee and contractor training.</li> <li>Environmental inspections.</li> </ul> </li> <li>Reporting requirements of the Small MS4 NPDES permits, and other environmental regulations.</li> </ul>
Element Environmental, LLC	Assists Harbors in meeting the environmentally related civil engineering and reporting requirements (if any), and other environmentally related investigations.
Insight Public Sector, Azteca <i>Cityworks</i> , and Woolpert, Inc.	<ul> <li>Assists Harbors with installing, configuring, testing, and deploying its Cityworks<sup>©</sup> Powered asset management system (AMS) and providing ongoing licensing and software support services.</li> </ul>

Copies of this AR will be submitted to the HDOH CWB.

#### 2.2 STORMWATER MANAGEMENT PLAN

Revisions were made to the SWMP since the initial NOIs or the last AR. The most recent version of the SWMP was updated and submitted in 2022 in compliance with NPDES permits.

#### 3.0 NPDES PERMIT

Table 2 provides a summary of Harbors NPDES permit conditions and compliance actions.

Table 2. Status of NPDES Permit Compliance					
Description Yes No Explanation					
Permittee is in compliance with NPDES permits.	✓		<ul> <li>Harbors stormwater program continued to strive in meeting the six MCMs of MS4 NPDES         Appendix K permits for both the Honolulu Harbor and KBPH.     </li> <li>Harbors has met permit requirements and is continuously working on improving existing programs.</li> </ul>		
Permittee has met all conditions of the 2022 SWMP.	<b>~</b>		Harbors has met all conditions of the 2022 SWMP, despite the fact that two tenant site inspections were delayed unwittingly due to some unexpected circumstance. Both inspections have been completed in January 2024. Harbors and its consultant continue to work with tenant to enhance timely communication.		
Permittee is currently in compliance with record-keeping and reporting requirements.	eping and reporting		<ul> <li>Harbors has retained majority of the required records except for one permanent BMP O&amp;M (Operation and Maintenance) record which is still yet to be provided by a tenant. A follow-up inspection will be conducted at this tenant facility.</li> <li>Harbors is currently using its AMS to manage its stormwater program work processes and related record-keeping in conjunction with its geographic information system (GIS) maps.</li> </ul>		

#### 3.1 SWMP MODIFICATION

This section includes the revisions made to the SWMP during the reporting period as required by HAR 11-55 Appendix K. The SWMP was updated in 2022 to reflect more practical and effective control measure activities which have been implemented in place since 2015 to be consistent with the overall goals of the program. The updated SWMP was provided in the NOI submittals for the NGPC Appendix K. No further modifications were made to this SWMP in 2023, a copy of this SWMP is available on the Harbors stormwater website at <a href="http://hidot.hawaii.gov/harbors/malamaikeawakai/">http://hidot.hawaii.gov/harbors/malamaikeawakai/</a>.

#### 3.2 SWMP CORE PROGRESS EVALUATION

Harbors continued to work with consultants to meet the requirements of the updated 2022 SWMP. Management continued their involvement to ensure proper implementation of the program.

The Harbors education and outreach program is designed for its employees, tenants, consultants, contractors, and the public. The program increases the general awareness of impacts that different activities may have on stormwater runoff, and how BMPs, and post-construction BMPs can help minimize or mitigate those impacts.

In 2023, the living trainings were conducted virtually, in-person, and in combination of online video option. The Harbors Annual Stormwater Pollution Prevention Awareness Training for tenants was provided via two virtual training sessions (on August 3 and September 8, 2023) and one online video through YouTube. Tenants were notified via email or certified letter to attend the training and to provide a completed survey to Harbors Engineering Branch Environmental Section (HAR-EE) as proof of completion. In addition, Harbors continued its inspections of high, medium, and low risk tenants in 2023 and provided outreach and education before, during, and after the site visits whenever necessary.

Harbors continued to implement the Construction Site Runoff Control Program (CSRCP). In 2023, Harbors Engineering Branch (HAR-E) and associated consultants and contractors whose primary job duties are related to implementing this program were invited to attend Harbors construction and post-construction training, which was conducted live during the HDOT Protect Our Water (POW) conference and via an online video on YouTube. This POW conference mainly focused on stormwater pollution prevention development; proper installation, maintenance, and inspection of construction BMPs; and review of updated policies, rules, and procedures. HAR-EE continued to review and evaluate all projects from design through construction phases, as well as coordinate and inspect regulated construction sites.

HAR-O continued its work on pollution prevention and good housekeeping (P2/GH). Two rounds of semi-annual and four rounds of quarterly screening inspections were conducted for all accessible and "discretionary" hot spot storm drain inlets and trench drains in 2023, respectively. Follow-up stenciling and comprehensive cleaning were performed at all drain inlets and trench drains identified as requiring further attention by the screening inspectors. In addition, storm drains and trench drains on the five-year cleaning schedule were also cleaned.

Harbors continued to use GIS-integrated AMS for recordkeeping, work flow, and data management. The AMS related outreach and training efforts were continued in 2023. Based on the actual demand and audience attendance in the past few years, Harbors adjusted the AMS/GIS workshop frequency to an annual basis and conducted it on October 12, 2023. Harbors Marine Cargo Specialists and Ground Maintenance crews continue to actively use AMS on computer and/or mobile devices to document work results and to report environmental issues found.

#### 3.3 PROGRAM EFFECTIVENESS

Harbors has determined that the majority of the selected BMPs are appropriate to reduce the discharge of potential pollutants in the stormwater. The metrics detailed in Section 5 of this report were effective at tracking Harbors stormwater compliance in 2023.

Table 3 below summarizes data regarding progress to reduce the discharge of potential pollutants.

Table 3. Status of BMPs								
MCM <sup>1</sup> Description	BMP Applied <sup>2</sup>	Parameter	Quantity	Does BMP Demonstrate a Direct Reduction in Pollutants?				
P2/GH	MS4 Cleaning	Debris	10.23 cu ft	Yes – pollutants would otherwise remain in MS4				
P2/GH	Street Sweeping	Debris	192.19 tons	Yes – pollutants would otherwise discharge to the MS4				
IDDE	Elimination of illicit discharges to MS4 or adjacent harbor waters (non-MS4 discharges)	Investigations related to MS4 discharges	30	Yes – illicit discharges reduced or eliminated				
Notes 1 Acces Advisory Control Manager								

<sup>&</sup>lt;sup>1</sup> MCM = Minimum Control Measure

#### 3.4 CHALLENGES AND PROPOSED MODIFICATIONS FOR 2023

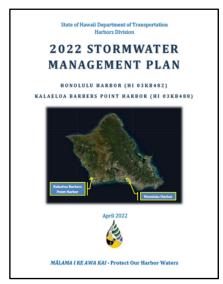
The SWMP was updated in 2022 to account for the revised HAR 11-55 Appendix K. Harbors will

continue to evaluate program efficiency and update the SWMP as needed.

#### 3.5 WATER QUALITY MONITORING DATA

Regular O&M of these permanent BMPs continued in 2023 to keep up their pollutant removal effectiveness. Based on the discussion of program effectiveness in Section 5, Harbors has assessed that water quality monitoring is not necessary at this time.

Figure 1. 2022 SWMP



<sup>&</sup>lt;sup>2</sup> Response Action on MCM/resultant outcome

#### 3.6 STORMWATER MESSAGES





HAR-EE continues to exercise best available efforts to prominently display the stormwater pollution prevention awareness message "Mālama I Ke Awa Kai, Protect Our Harbor Waters," in all printed and electronic communication with tenants and during employee, tenant, consultant, construction contractor, or public trainings. To enhance the visibility, Harbors has continued the use of a stormwater pollution prevention awareness logo consisting of the awareness message and a raindrop fish to promote responsible environmental behavior and to protect harbor waters.

Additionally, to increase stormwater pollution prevention awareness, stainless steel medallions have been installed next to storm drain inlets and other storm conveyance structures to remind Harbors employees, tenants, users, and the public that all drains lead to the ocean. The medallions are replaced as needed.



Signs installed at visible public areas include information about illicit discharges and the phone numbers (including stormwater hotline) for reporting. Based on the inspection and repair results from the past few years, HAR-EE assessed and determined that these sign inspections will be conducted biennially.

**Figure 2. Pollution Prevention Sign** 

#### 4.0 STORMWATER MINIMUM CONTROL MEASURES

Harbors small MS4 permits are regulated by HAR 11-55, Appendix K, which requires all permittees to develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants to the small MS4 system to the MEP, to protect water quality, and satisfy the water quality requirements of the Clean Water Act (CWA). HAR 11-55 requires a SWMP to include the following six MCMs with implementation dates and rationales for each measure.

- 1. Public Education and Outreach;
- 2. Public Involvement and Participation;
- 3. Illicit Discharge Detection and Elimination (IDDE);
- 4. Construction Site Runoff Control;
- 5. Post-Construction Stormwater Management in New Development and Re-Development; and,
- 6. Pollution Prevention and Good Housekeeping.

Appendix K of HAR 11-55 also requires the permittee to develop "measurable goals" to gauge permit compliance and program effectiveness for each MCM identified above. The permittee shall select measurable goals using an integrated approach that fully addresses the requirements and intent of the MCM.

This section details how Harbors has met the six requirements and measurable goals.

#### 4.1 PUBLIC EDUCATION AND OUTREACH

HAR 11-55 Appendix K, requires the small MS4 permittee to provide public education and outreach. This public education program provides educational materials to users of the permittee's small MS4 and outreach activities emphasizing the following:

- A. Impacts of stormwater discharges on water bodies;
- B. Hazards associated with illicit discharges; and
- C. Measures that users of the permittee's small MS4 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

Table 4 provides a summary describing Harbors public outreach and education program, including the MCM, milestones, BMP goals, and planned activities.

#### **Table 4. Public Education and Outreach**

MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP A.3.1.1 Integrate and promote the message: Mālama i ke awa kai – Protect Our Harbor Waters	HAR-EE	Percentage of tenant outreach and training materials featuring message.	1/1/22	HAR-EE continues to exercise the best efforts to display the stormwater pollution prevention awareness message "Mālama I Ke Awa Kai - Protect Our Harbor Waters" in all printed and electronic communication with tenants and during staff, tenant, or public trainings.		N/A	Continue to integrate message into all printed and electronic communication.
SWMP A.3.1 Continue to provide and disseminate stormwater awareness information to tenants and the public.	HAR-EE	Number of stormwater awareness information provided to tenants and public.	1/1/22	The stormwater message and logo has been included in at least five forms of information:  Documents (SWMP, AR).  BMP Handouts  Construction and Post-Construction Brochures  New Tenant Welcome Brochure  Tenant Training Notice  Training Presentations (Tenant, Construction, and IDDE)		N/A	Continue to include message wherever beneficial.

rate through

visits, email

individual calls,

reminder, etc.

Table 4. Fublic Education and Outreach							
MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP A.3.1.2 Maintain a web- based media to disseminate stormwater awareness information.	HAR-EE / HAR-SI	Number of visitors annually.	1/1/22	<ul> <li>Harbors received a total of roughly 791 unique page views in 2023.</li> <li>There were 1,150 web page views in 2023.</li> </ul>		N/A	Continue to track web page views.
SWMP A.3.2 Provide educational outreach to tenants to	HAR-EE	Distribute educational materials to tenants that include	1/1/22	A live virtual training in addition to the online stormwater training video was implemented in lieu of the live training sessions. The video	/	N/A	Continue the efforts and increase the training participation

was made available to tenants

and the live virtual training was

conducted on August 3, 2023

• 81.5% of tenants attended this

and September 8, 2023.

training (Attachment 2d).

in January 2023 on YouTube

requirements listed

Track percentage

of tenants who

annual training.

attended the

in A.3.2.3.

proactively

activities that

could result in

mitigate

pollution.

Table 4. Public Education and Outreach

	Table III abile Education and Gatheden										
MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024				
SWMP A.3.1.4 Use Suspected Illicit Discharge Reporting (SIDR) to track informational inquiries and reports placed to the hotline and follow-up activities.	HAR-EE / HAR-SI	Number of informational inquiries and reports received.  Duration from when call is received until response.	1/1/22	All inquiries were responded to within 24 hours when practical.		N/A	Continue to track the number of informational reports received. Continue to distribute SIDR pocket guides for HAR-O & HAR-E use when necessary.				
SWMP A.3.1.5 Provide outreach to the general public at Honolulu Harbor and KBPH on stormwater issues via Harbors website.	HAR-EE / HAR-SI	Items described in Section 2.1.6 are updated efficiently.  Identify website pages to display stormwater awareness message.  Link to Harbors website is prominently featured on the main HDOT website.	1/1/22	The web page has been updated throughout 2023. (http://hidot.Hawaii.gov/HDOT-Harbors/malamaikeawakai/).  The links to the other HDOT websites are included on the Harbors web page.		N/A	Continue to promote web page through trainings and material handouts.				

Table 4	Public	Education	and Outreacl	h
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		_											
MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024						
SWMP A.3.1.6 Continue to maintain signage at public areas and stencil storm drain inlets to promote stormwater pollution prevention to deter illicit charges into Harbors waters.	HAR-EE / HAR-O	Inspect and maintain signage.  Inspect stencils/labels prior to the wet season. Percentage of illegible stencils rectified.	1/1/22	<ul> <li>Signs are inspected once every two years at Honolulu Harbor and Kalaeloa Barbers Point Harbor.</li> <li>100% of accessible storm drain inlets and trench drains were stenciled.</li> <li>In 2023, a total of 11 drain inlets required re-stenciling or replacing.</li> </ul>		N/A	Evaluate the need for additional signs. Replace and repair missing or damaged signs.						
SWMP A.3.2.3. Continue to maintain a comprehensive list of BMP handouts covering common tenant activities.	HAR-EE	Comprehensive set of BMP handouts developed and posted on Harbors website.	1/1/22	A list of updated tenant BMPs is available on the Harbors web page:  • <a href="http://hidot.Hawaii.gov/HDO">http://hidot.Hawaii.gov/HDO</a> T-Harbors/malamaikeawakai/		N/A	Update and distribute BMP handouts as necessary.						

Table 4	Public	<b>Education</b>	and Outre	ach
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	Table III abile Education and Gatheau									
MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP A.3.2.1. Update tenant lease agreements, Tenant Revocable Permits (TRPs), and other materials (upon renewal) to reference or include minimum BMPs and require their implementation.	HAR-PM / HAR-O / HAR-EE	Percent of new/renewed tenants with modified language in their leases or TRPs.	1/1/22	100% of new/renewed tenant leases and revocable permits have incorporated the updated language.		N/A	Continue to use the new format.			
SWMP A.3.3.1 Disseminate information sheets with recommended BMPs for Vessel Operators.	HAR-O / HAR-EE	Continue to distribute BMP fact sheets for vessel operators when necessary.	1/1/22	<ul> <li>A BMP flier is available on the Harbors web page titled "BMPs for Small Vessel Maintenance Activities."</li> <li>Harbors will continue to work on translating this BMP into other foreign languages as necessary, to provide outreach to non-English speaking users.</li> </ul>		N/A	Distribute updated flyers. Continue to evaluate and translate this BMP into foreign languages, as necessary.			

#### **Table 4. Public Education and Outreach**

MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP A.3.2.2 Maintain an electronic tenant inventory and update in accordance with the Harbors Tenant Inspection Manual (TIM).	HAR-EE/ HAR-EP/ HAR-PM	Percentage of tenants updated information listed in the electronic inventory based on the most recent inspection.	1/1/22	<ul> <li>Harbors continued to maintain their electronic tenant inventory.</li> <li>100% of tenants are included in Cityworks.</li> </ul>		N/A	Continue to update and maintain tenant inventory data using GIS-integrated AMS.
SWMP B.6.1 Provide effective educational materials to relevant employees to maintain their knowledge of Harbors stormwater pollution prevention program.	HAR-EE	Provide information about stormwater pollution prevention to all Harbors employees.  Provide IDDE training to all Marine Cargo Specialists, and Grounds Supervisors.	1/1/22	<ul> <li>Educational materials distributed in 2023 include outreach messages and handouts via emails on October 10, 2023 (Attachment 4a)</li> <li>90.35% of Harbors employees responded to the Survey. A summary of the results and the hard copy questionnaire are included in Attachment 4c.</li> </ul>		N/A	Update the training quiz and distribute to employees.

MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP B.6.1 Provide effective educational materials to relevant employees to maintain their knowledge of Harbors stormwater pollution prevention program.	HAR-EE	Provide training to staff whose job duties include implementing the Tenant Inspection Program (TIP), as specified in the TIM.  Provide training to staff whose job duties include implementing the Outfall Reconnaissance Inventory and Inspection Program (ORIIP), as specified in the manual.	1/1/22	Neither TIM nor ORIIP inspector training is necessary.		N/A	Update the training quiz and distribute to employees.

		- •					
MCM/BMP Description	Responsible Party	Evaluation Metric	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP C-CSRCP Section 5.1 & 6 Provide training and resources for Harbors employees, consultants, tenants, and construction contractors regarding construction BMPs. Update training materials when	HAR-EE / HAR-E	Provide contractors with CSRCP Manual via Harbors Storm Water website.  Provide training to personnel whose primary job duties related to implementing the CSRCP.	1/1/22	Handouts are posted on Harbors website (inside Construction Site Runoff Control Program Manual) and available at the annual HDOT POW conference on 11/14/2023.		N/A	Distribute materials annually.
necessary.  SWMP A.3.2.1  Continue to update the New Tenant Information Package, when necessary, to ensure new tenants are aware of stormwater requirements.	HAR-EE	Develop and update as necessary the New Tenant Information Package to include stormwater requirements.	1/1/22	The new tenant information package is available on the Harbors web page and is also provided to the new tenants directly.		N/A	Distribute information to new tenants.

#### 4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

HAR 11-55, Appendix K requires the small MS4 permittee to create an IDDE program. The program implements and enforces methods to detect and eliminate illicit discharges that, at a minimum, include the following:

- A. Establish rules, ordinances, or other regulatory mechanism, including enforcement procedures and actions, that prohibit non-stormwater discharges, Section 1 of HAR 11-55, Appendix K lists discharges that do not cause or contribute to any violations of water quality standards, into the permittee's small MS4 system;
- B. Procedures to detect and eliminate illicit discharges as defined in Code of Federal Regulations 40 Section 122.26(b) (2); and
- C. Compile a list of non-stormwater discharges or flows that are considered to be significant contributors of pollutants to the system, and measures to prevent these discharges into the permittee's small MS4, or reduce the amount of pollutants in these discharges.

Table 5 summarizes data regarding Harbors IDDE program, MCMs, BMPs, goals, milestones, and planned activities.

	Table 5. Illicit Discharge Detection and Elimination Program									
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP TIM – 2 Harbors will inspect all regulated tenants at frequencies based on their environmental risk.	HAR-EE	Percentage of new tenants having initial/new tenant inspection completed.	1/1/22	Five new/initial inspections were conducted in 2023, which represents 100% of new tenants formally identified by Harbors Property Management Staff (HAR-PM) (Labeled as "new" under the "Inspection Type" column in Attachment 7).		N/A	Continue to inspection new tenants upon notification.			

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	Table 5. Illicit Discharge Detection and Elimination Program										
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024				
SWMP TIM – 4.3 Harbors will inspect all regulated tenants at frequencies based on their environmental risk.	HAR-EE	Percentage of tenants having risk ranking updated per the TIM.	1/1/22	<ul> <li>All tenant sites risk ranking were evaluated/updated.</li> <li>One tenant site upgraded from medium to high.</li> <li>Two tenant sites upgraded from low to medium.</li> <li>Five tenant sites downgraded from medium to low.</li> <li>One tenant site downgraded from high to low.</li> <li>One tenant site downgraded from high to medium.</li> </ul>		N/A	Update IDDE and tenant training and continue to conduct site assessments.				
SWMP B.2 – TIM Harbors will inspect all regulated tenants at frequencies based on their environmental risk.	HAR-EE	Percentage of follow-up inspections completed within 7 days upon discovery.	1/1/22	100% of follow-up inspections were completed within 7 days of discovery (if any).		N/A	Continue to conduct outreach activities.				

	Table 5. Illicit Discharge Detection and Elimination Program										
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024				
SWMP B.2 – TIM Harbors will inspect all regulated tenants at frequencies based on their environmental risk.	HAR-EE	Percentage of follow-up inspections completed within 30 days of a reconnaissance inspection identifying a substantive change to a facility's operation, size, or activities.	1/1/22	A total of 37 reconnaissance inspections were completed in 2023. And none triggered a follow-up inspection.		N/A	Continue the low-risk tenant reconnaissance.				
SWMP B.3 - ORIIP Harbors will inspect outfalls to identify illicit discharges.	HAR-EE	Percentage of investigative inspections performed by next working day.	1/1/22	No outfalls were ranked as Potential, Suspect, or Obvious last year. Therefore, no dry weather reconnaissance was conducted in 2023.  Wet weather reconnaissance was completed on November 28, 2023.		N/A	Conduct dry weather reconnaissance of all outfalls.  Conduct wet weather reconnaissance.				

	Table 5. Illicit Discharge Detection and Elimination Program									
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP B.3 ORIIP Section 2.0 and 3.0 Harbors will manage an outfall database that will track locations of outfalls and previous inspections in order to create a more complete picture of potential illicit discharges.	HAR-EE/ HAR-EP	Re-prioritize all outfalls.  Biannually inspect all outfalls ranked Unlikely during dry weather.  Annually inspect all outfalls ranked Potential, Suspect, and Obvious during dry weather.  Annually inspect outfalls at "high risk" area during wet weather.	1/1/22	No outfalls were ranked as Potential, Suspect, or Obvious last year. Therefore, no dry weather reconnaissance was conducted in 2023.  One outfall was inspected during wet weather reconnaissance in 2023 (Attachment 8).		N/A	Continue to address illicit discharges, if any.			
SWMP B.3 - ORIIP Section 3.3 and 3.4	HAR-EE	Percentage of illicit discharges identified during both dry and wet weather inspections properly addressed.	1/1/22	Outfall reconnaissance conducted during wet weather revealed no illicit discharges.		N/A	None			

	Table 5. Illicit Discharge Detection and Elimination Program									
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP B.4 Perform site assessments to identify active or recent illicit discharges and increase the field presence of Harbors personnel.	HAR-O/ HAR-EE	Percentage of identified suspected illicit discharge tracked. Respond to violations in accordance with the ERP.	1/1/22	There were 30 suspected illicit discharges reported in 2023 (Attachment 9).		N/A	Continue to address BMPs that need improvement.			

#### 4.3 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

HAR § 11-55, Appendix K requires the small MS4 permittee to develop, implement, and enforce a program to reduce pollutants in stormwater runoff entering the permittee's small MS4 system from construction activities disturbing one acre or more. Included are 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. Program priorities, includes:

- A. Established rules, ordinances, or 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 BMPs;
- 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 to water quality;
- D. Procedures for site plan reviews which incorporate consideration of potential water quality impacts;
- E. Procedures for receipt and consideration of information submitted by the public; and
- F. Procedures for site inspection and enforcement of control measures.

Table 6 provides information about the construction site runoff controls, including MCMs, BMPs, goals, milestones, and planned activities.

	Table 6. Construction Site Stormwater Runoff Control										
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024				
SWMP C-CSRCP Harbors will maintain oversight of all non-exempt construction projects for compliance with the CSRCP.	HAR-E / HAR-EE	Percentage of applicable construction projects reviewed using the Construction Site Design Review Checklist.  Percentage of contractor SWPPPs, NOI, and discharge permit applications reviewed.	1/1/22	<ul> <li>100% of the NOI-C regulated projects reviewed are required to use the Construction Site Design Review Checklist.</li> <li>100% of project supporting documents are reviewed as a part of the standard review process.</li> </ul>		N/A	Continue to review form where applicable.				
SWMP C – CSRCP Harbors will maintain oversight of all non-exempt construction projects for compliance with the CSRCP.	HAR-E / HAR-EE/ HAR-PM	Percentage of construction site inspection records into database.	1/1/22	100% of construction site inspection records were entered into database.		N/A	Continue to track inspection records.				

	Table 6. Construction Site Stormwater Runoff Control									
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP C – CSRCP Harbors will maintain oversight of all non-exempt construction projects for compliance with the CSRCP.	HAR-E / HAR-EE / HAR-PM	Percentage of non- exempted projects less than one acre that submitted Notification Form for Project Site Disturbing Less Than One Acre (HDOT HAR-EE Form SD<1_NFT).		<ul> <li>A total of 26 Harbors projects were reviewed in 2023. Four of them were considered non-exempt and regulated by NPDES NOI-C Permit (Attachment 11b).</li> <li>A total of 5 Tenant projects were reviewed in 2023. One of them was considered non-exempt but none were regulated by NDPES NOI-C Permit (Attachment 11a).</li> <li>100% of non-exempt projects submitted the form.</li> </ul>		N/A	Continue to review form where applicable.			
SWMP C – CSRCP Harbors will maintain oversight of all non-exempt tenant construction projects for compliance with the CSRCP.	HAR-E / HAR-EE / HAR-PM	Percentage of applicable construction projects reviewed for necessary BMPs.  Percentage of tenant site inspection records entered into database.	1/1/22	<ul> <li>100% of project supporting documents are reviewed as a part of the standard review process.</li> <li>100% of tenant site inspection records entered into database.</li> </ul>		N/A	Review construction plans.			

	Table 6. Construction Site Stormwater Runoff Control										
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024				
SWMP C- CSRCP Sections 3.4, 4.4 Ensure illicit discharges from Harbors construction projects and tenant improvement projects are deferred or eliminated through inspection and enforcement.	HAR-EE	Percentage of completed enforcement actions recorded in construction project database	1/1/22	<ul> <li>100% of completed enforcement actions recorded in the construction project database.</li> <li>None triggered escalated enforcement in 2023.</li> </ul>		N/A	Continue to keep track of records.				

#### 4.4 POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

HAR 11-55, Appendix K requires the small MS4 permittee to develop, implement, and enforce a program to reduce pollutants in stormwater runoff entering the permittee's small MS4 system from new development and redevelopment projects that disturb up to one acre. Included are construction sites less than one acre that are part of a large common plan of development or sale that would disturb one acre or more. The program includes the following:

- A. Establish rules, ordinances, or other regulatory mechanisms, including enforcement procedures and actions, that address post-construction runoff from new development and redevelopment projects.
- B. Structural and/or non-structural BMPs to minimize water quality impacts and attempt to maintain predevelopment runoff conditions; and
- C. Procedures for long-term O&M of BMPs.

Table 7 provides information about Harbors post-construction stormwater management activities in new development and redevelopment projects, including MCMs, BMPs, goals, milestones, and planned activities.

	Table 7. Post-Construction Stormwater Management in New Development and Redevelopment									
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024			
SWMP D.7 Provide training and resources for Harbors engineers, consultants, and contractors regarding Post- Construction BMPs.	HAR-EE	Percentage of personnel whose primary job duties are related to implementing the Post-Construction BMP program have received training.	1/1/22	A total of 39 individuals completed the Harbors Construction & Post-Construction BMP training and survey, which represents 100% of personnel whose primary job duties are related to implementing the relevant programs.  A total of 107 virtual attendees joined Harbors training session during HDOT POW conference on November 14, 2023 (Attachment 3e).		N/A	Continue to provide and track the training.			

	Table 7. Post-Construction Stormwater Management in New Development and Redevelopment							
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date		Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP D 1.0, 2.2, 5.4 Harbors will manage all Harbors Capital Improvement Projects (CIPs) that disturb one acre or more of land for compliance with the Post- Construction Stormwater Management Program.	HAR-EE	Percentage of regulated projects reviewed in design phase for necessary BMPs using the Permanent Post-Construction Best Management Practice Plan Checklist.  Percentage of projects for which O&M Plans have been reviewed.  Percentage of Post-Construction BMP inspections records entered in a database in a format compatible with GIS.	1/1/22	•	The Post-Construction BMP Plan Checklist was used to evaluate 100% of the regulated projects (Attachment 11b).  100% of Harbors projects with permanent post-construction BMPs have an O&M plan or have adopted one from the manufacturer(s), where applicable, and ongoing maintenance.  100% of PBMP inspections were recorded in AMS (Attachment 13).  Existing PBMP inspection and maintenance are conducted biennially. Inspection and maintenance frequency for newly installed PBMP will be assessed in 2024.		N/A	Continue to use the Post-Construction BMP Plan Checklist for plan review on applicable projects.  Continue to review plans for permanent BMPs.  Update the inventory as necessary.

	Table 7. Post-Construction Stormwater Management in New Development and Redevelopment							
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date		Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP D 1 & 2.3 Harbors will manage all tenant improvement projects for compliance with the Post- Construction Stormwater Management Program.	HAR-EE	Percentage of regulated tenant projects reviewed in design phase for necessary BMPs using the Post-Construction BMP Plan Checklist.  Percentage of tenant facilities with permanent BMPs that have an updated revocable permit or lease language requiring the implementation of the operation and maintenance plan.	1/1/22	•	The Post-Construction BMP Plan Checklist was used to evaluate 100% of the regulated projects (Attachment 11a). All projects with permanent BMPs have an O&M Plan. 100% of tenant projects with PBMPs have O&M plans or have adopted one from the manufacturer(s).		N/A	Continue to review plans for permanent BMPs.  Update leases (when applicable) for tenants with permanent BMPs in include requirements for an O&M plan

	Table 7. Po	ost-Construction Sto	rmwater M	ana	agement in New Developme	nt and Redev	elopment	
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date		Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
SWMP D.1 & 2.3 Harbors will manage all tenant improvement projects for compliance with the Post- Construction Stormwater Management Program.	HAR-EE	Percentage of projects for requiring annual Post-Construction BMP inspections were conducted by tenants and reported to Harbors.  Percentage of Post-Construction BMP inspections conducted by Harbors, including those conducted during regular tenant inspections.	1/1/22	•	100% of required PBMP inspections are conducted by tenants, however, records are still pending to be reported to Harbors.  UHMC performs maintenance on the PBMPs at Pier 35 as part of their lease agreement.  As of January 2024, Harbors has not received the PBMP O&M maintenance records.  Harbors will conduct follow-up inspections in February 2024 to ensure corrective actions are completed.		N/A	Continue to use the Post-Construction BMP Plan Checklist for plan review on applicable projects.  Continue inspections where necessary.
SWMP D.6 Ensure illicit discharges from improperly managed Post- Construction BMPs are mitigated by inspection and enforcement.	HAR-E	Percentage of enforcement actions recorded in project database.	1/1/22	ac	nere were no enforcement ctions relating to permanent MPs in 2023.		N/A	Record enforcement as necessary

### 4.5 POLLUTION PREVENTION AND GOOD HOUSEKEEPING

HAR 11-55, Appendix K requires the small MS4 permittee to develop a P2/GH program that will implement and enforce an O&M 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 BMP practices are properly implemented.

Table 8 provides information about Harbors P2/GH program, including MCMs, BMPs, goals, milestones, and planned activities.

	Table 8. Pollution Prevention and Good Housekeeping						
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
Ensure the small MS4 conveys water to the harbor without obstructions or adding pollutants by performing initial and recurring cleaning.	HAR-O / HAR-E	Percentage accessible features specified by SSS O&M Plan that were cleaned.  Percentage of feature inspections recorded in database.  Percentage of hot spots identified for which BMPs were implemented or modified.	1/1/22	<ul> <li>100% of accessible storm drain inlets and trench drains were inspected and cleaned in 2023 (Attachment 14a &amp; 14b).</li> <li>100% of inspection findings and cleaning results were recorded in the AMS.</li> <li>Accessible drainage features were cleaned in 2023 when needed.</li> <li>Approximately 10.23 cu ft of debris were removed from the cleaning activities.</li> </ul>		N/A	Continue the small MS4 O&M and related recordkeeping.

		Table 8. P	ollution P	revention and Good Housekeepi	ng		
MCM/BMP Description	Responsible Dept. / Section	BMP Applied/ Measurable Goal(s)	BMP Start Date	Permit Year 2 Milestones/Progress on Goal(s)	Completed in 2023?	New or Revised Goal	Activities Planned in 2024
Designate appropriate drainage system maintenance and perform maintenance according to inspection results.	HAR-EE / HAR-EP	Once every five years, determine the percentage of accessible drainage features that have been cleaned.	1/1/22	100% of accessible storm drain inlets and trench drains due for 5-year cleaning were inspected and cleaned in 2023.		N/A	Continue to track drainage features that have been cleaned.
SWMP E.3.1 Review applications related to washing activities.	HAR-EE / HAR-EP	Percentage of washing activities that have submitted applications for approval.	1/1/22	One wash application was received for review and approval in 2023.		N/A	Continue to review applications as received
SWMP E.3.2 Review applications for dry wells and infiltration sinks.	HAR-EE	Percentage of submitted applications for dry wells and sinks that were reviewed.	1/1/22	No applications were received for reviewed in 2023.		N/A	Continue to review applications as received
SWMP A.3.2 Provide general outreach materials to harbors employees and tenants for Pollution Prevention and Housekeeping.	HAR-EE	Percentage of harbors employees and tenants provided with educational materials.	1/1/22	100% of harbors employees and tenants were provided with educational materials in 2023.		N/A	Continue to train harbors employees and tenants on Pollution Prevention and Housekeeping.

## 5.0 PROGRAM OUTPUTS AND ACCOMPLISHMENTS

### 5.1 MS4 PROGRAM EXPENSES

Program expenditures include the costs of several consultant contracts as well as an estimate of time spent by Harbors employees, AG and ENV support to ensure compliance with the conditions of the NPDES permit. Total expenditures in 2023 were slightly less than the previous year. Overall, funds expended in 2023 met current needs. Table 9 provides a summary of the MS4 program expenses.

Table 9. MS4 Program Expenses					
Item	Response				
Office of Environmental Compliance created/staffed	Yes				
Annual program budget/expenditures* ('Best efforts' estimates of 2021 exper	iditures)				
<ul> <li>Public Education and Outreach &amp; Public Participation and Involvement program expenditures</li> </ul>	\$76,498				
Illicit Discharge Detection and Elimination Program expenditures	\$246,701				
Construction Site Runoff Control expenditures	\$208,703				
<ul> <li>Post-Construction Stormwater Management in New Development and Re-development programs expenditures**</li> </ul>	\$62,789				
P2/GH BMP program expenditures	\$360,470				
General Permit Compliance expenditures	\$290,878				
Program Total Expenditures	\$1,246,039				
Funding mechanisms(s) - (Routine Maintenance Fund, Special Maintenance, Major Maintenance, Service Project, Equipment Acquisition, CIP)	Routine and Special Maintenance Funds, CIP				
Notes: Data is from the 2023 calendar year. *Expenditures from Harbors employees have been approximately based on the estimated perworked on stormwater related tasks.  **Permanent Post-Construction BMP plan checklist reviews and associated inspections are a					

Construction Site Runoff Control category since they are completed in conjunction with construction related tasks.

Figure 3 shows \$360,470 (29%) of the total expenditures for 2023 were for P2/GH BMP program expenditures. The General Permit Compliance program was the second-highest expense at \$290,878 (23%). The IDDE program was third most expensive at \$246,701 (20%). The Construction program cost \$208,703 (17%) of the total budget, the Post-Construction cost \$62,789 (5%), and the Public Education/Involvement program program cost \$76,498 (6%).

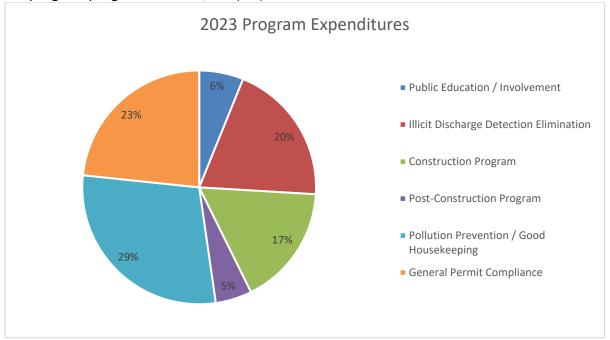


Figure 3. 2023 Program Expenditures

Figure 4 shows the program expenditures over the last eight years.

- The IDDE program expendures increased in 2023 to \$246,701 compared to \$237,988 in 2022.
- The Construction program cost increased slightly to \$208,703 in 2023 compared to \$181,449 in 2022.
- The General Permit Compliance expenditures increased in 2023. It was \$274,836 in 2022 and increased to \$290,878 in 2023.
- The Public Education and Involvement program increased in 2023. It was \$50,809 in 2022 and increased to \$76,498 in 2023.
- The P2/GH program decreased in 2023 to \$360,470 compared to \$474,534 in 2022.
- The Post-Construction program spending decreased slightly in 2023 to \$62,789 compared to \$67,219 in 2022.

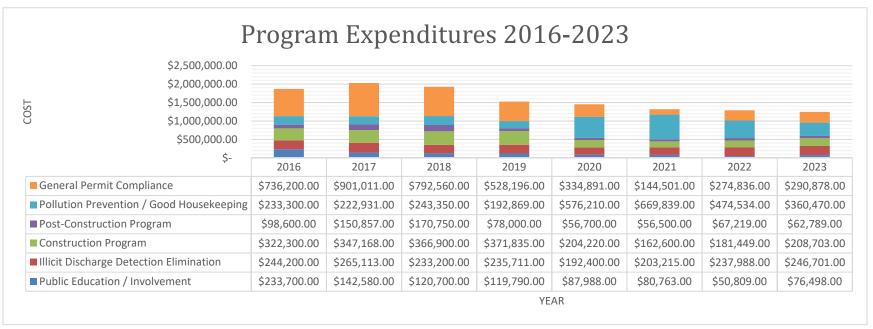


Figure 4. Program Expenditures from 2016-2023

## 5.2 EDUCATION, INVOLVEMENT, AND TRAINING

The training and education of Harbors employees, tenants, and the public remained one of the top priorities in 2023. Reiteration of the environmental requirements, Harbors stormwater procedures, and BMPs has shown to be the best way to facilitate a culture of stormwater pollution prevention awareness and compliance. The large number of people trained, and their high quiz scores attest to the effectiveness of the training program.

Additionally, Harbors participated in the joint HDOT "Protect Our Water Conference" on November 14, 2023 along with HDOT Highways Oahu and Maui Districts, and HDOT Airports. The conference highlighted the joint effort that the entire HDOT is taking to collectively protect the water resources of the State of Hawaii.

Table 10. Education, Involvement, and Training					
Description	Response				
Estimated number of people reached by education program(s)*	550				
<ul> <li>Tenant General Stormwater BMP Training</li> </ul>	99				
Employee Stormwater Training	206				
Construction & Post-Construction Training	39				
• IDDE	4				
New Inspector(s)	0				
Average score on the environmental knowledge survey(s):					
Tenant Stormwater Training	94.8%				
Employee Survey (average % correct responses)	91.39 %				
Tenants who had positive view of the training	86.9 %				
Unique visitors to the stormwater web page	791 (roughly)				
Public Education Signs	90				
Storm Drain Inlets Stenciled	> 768				
"Protect Our Water Conference" Attendees	371				
Notes: Data is from the 2023 calendar year. *Some individuals may have been trained at two or more of the training sessions; however, t	hey were counted separately.				

Figure 5 provides data on the total number of employees, tenants, and engineering staff/consultants/contractors that received training for the last eight years.

- In 2023, 206 employees, 99 tenant individuals, and 39 engineering staff consultats/contractors were trained.
- In 2022, 212 employees, 85 tenant individuals, and 47 engineering staff consultats/contractors were trained.
- In 2021, 227 employees, 127 tenant individuals, and 160 engineering staff consultats/contractors were trained.
- In 2020, 203 employees, 105 tenant individuals, and 139 engineering staff consultants/contractors were trained.
- In 2019, 201 employees, 102 tenant individuals, and 75 engineering staff/consultants/contractors were trained.
- In 2018, 194 employees, 89 tenant individuals, and 26 engineering staff/consultants/contractors were trained.
- In 2017, 189 employees, 123 tenant individuals, and 20 engineering staff/consultants/contractors were trained.

• In 2016, 211 employees, 109 tenant individuals, and 23 engineering staff/consultants/contractors were trained.



Figure 5. Number of People Trained from 2016-2023

# 5.3 LEGAL/REGULATORY

All accompanying program elements (listed in Table 11) were in place prior to the 2022 SWMP revision and update.

Table 11. Legal/Regulatory

Description	In Place Prior 2022 SWMP
Illicit Discharge Detection & Elimination	✓
Construction and Post-Construction Related Activities	✓
Post-Development Stormwater Management	✓
Illicit Discharge Detection & Elimination	✓
Construction and Post-Construction Related Activities	✓
Post-Development Stormwater Management	✓

## 5.4 MAPPING AND ILLICIT DISCHARGES

None of the reported suspected illicit discharges led to escalated enforcement. All investigations ended with the resolution.

The majority of the illicit discharge reports in 2023 came from Harbors staff and tenants. This indicates that the training provided is effective and people understand the proper reporting protocols when potential pollution or a suspected illicit discharge is observed.

Table 12. Mapping and Illicit Discharges				
Description	Response			
System-wide mapping complete	100 %			
(Storm Sewer Infrastructure)				
Mapping method(s)				
Paper	when requested			
GIS	100 %			
Outfalls required to be inspected/screened:				
Honolulu Harbor	1			
Kalaeloa Barbers Point Harbor	0			
SIDR / Public Reports	30			

Table 12. Mapping and Illicit Discharges				
Description	Response			
Tenant Inspections	0			
Construction Inspections	0			
Outfall Reconnaissance	0			
Illicit discharges recorded/investigated since 2010	396			
Complaints/concerns received from public	1			
Note: Data is from the 2023 calendar year.				

Figure 6 shows the data recorded for illicit discharge investigations over the past eight years.

- In 2023, there were 30 investigations performed in follow-up to 30 SIDRs when necessary.
- In 2022, there were 28 investigations performed in follow-up to 28 SIDRs when necessary.
- In 2021, there were 38 investigations performed in follow-up to 38 SIDRs. There was one from the wet weather outfall reconnaissance but none from tenant inspections and construction inspections.
- In 2020, there were 22 investigations performed in follow-up to 22 SIDRs. There were four from tenant inspections and none from construction inspections or outfall reconnaissance reprots.
- In 2019, there were 31 investigations performed in follow-up to 31 SIDRs. There was one from tenant inspections, none from construction inspections, and none from outfall reconnaissance reports.
- In 2018, there were 51 investigations performed in follow-up to 51 SIDRs. There was one from tenant inspections, none from construction inspections, and none from outfall reconnaissance reports.
- In 2017, there were 51 investigations performed for the SIDR. There were only two from tenant inspections, none from construction inspections, and none from outfall reconnaissance reports.
- In 2016, there were 26 SIDR forms filed, one tenant inspection, no construction inspections, and two outfall reconnaissance reports filed.

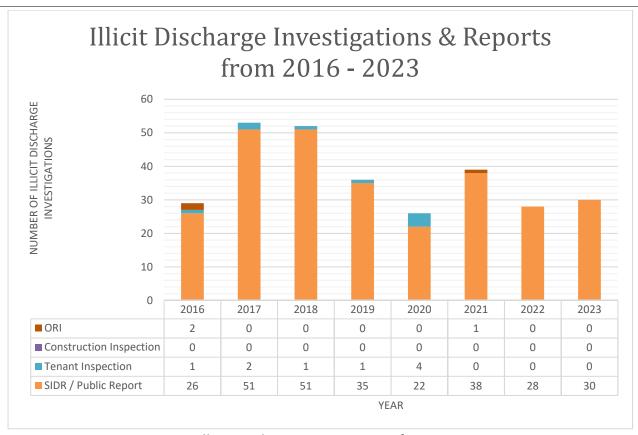


Figure 6. Illicit Discharge Investigations from 2016-2023

## 5.5 HARBORS TENANTS

The risk ranking for tenants in 2023 was consistent with rankings performed in 2022, with 69% of tenant sites classified as low risk. This is consistent with the fact that the majority of tenants at Honolulu Harbor and Kalaeloa Barbers Point Harbor conduct small scale operations.

In 2023, the risk ranking of one tenant site was upgraded from medium to high and two tenant sites were upgraded from low to medium. Additionally, one tenant site downgraded from high to medium, one tenant site downgrade from high to low, and five tenant sites downgraded from medium to low. There were no tenant-related escalated enforcement actions in 2023.

Harbors highlighted management of non-stormwater discharges and the importance of implementing proper BMPs in the annual tenant trainings to protect harbor waters. Harbors is planning to continue to highlight management of non-stormwater discharges in 2024 training events.

Table 13. Harbors Tenants			
Description	Response		
Total Unique Tenants	57		
Total Tenant Sites	69		
Low Risk Rank	47		
Medium Risk Rank	16		
High Risk Rank	6		
Number of Tenant Inspections	73		
New	5		
Regular	30		
Final	1		
Site Reconnaissance	37		
Follow-up	0		
Number of Escalated Enforcement Actions	0		
Note: Data is from the 2023 calendar year.			

Figure 7 represents the distribution of tenant risk ranking. 70% of the tenant sites are low risk, 22% are considered medium risk, and only 8% are considered a high risk.



Figure 7. 2023 Tenant Risk Ranking Distribution

### 5.6 CONSTRUCTION

The number of construction inspections in 2023 decreased from 2022. Minor findings were reported and corrected during and following the inspections, leaving zero escalated enforcement actions taken. This indicates that construction-related stormwater training is effective and shows evidence of growing stormwater pollution awareness, as well as the contractor's willingness to learn about the best methods to prevent pollution, and their commitment to protecting the environment.

Table 14. Construction			
Description	Response		
Total number of project reviews	31		
Harbors	26		
Tenant	5		
Total number of project reviews requiring NGPC	4		

Table 14. Construction		
Description	Response	
Number of inspected construction sites	9	
Harbors	5	
Tenant	2	
Others (e.g., CCH, Construction Right-of-Entry (ROE))	2	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	100%	
Site inspections completed	74	
Enforcement actions	0	
Written warning	0	
Notice of Apparent Violation (NAV)	0	
<ul> <li>Issuance of stop work order and summons/citations</li> </ul>	0	
Referral to HDOH	0	
Fines collected	0	
Note: Data is from the 2023 calendar year.		

Figure 8 illustrates the number of construction inspections and enforcement actions taken over the last eight years.

- In 2023, there were 74 construction inspections and no escalated enforcement actions.
- In 2022, there were 107 construction inspections and no escalated enforcement actions.
- In 2021, there were 70 construction inspections and no escalated enforcement actions.
- In 2020, there were 55 construction inspections and no escalated enforcement actions.
- In 2019, there were 47 construction inspections and no escalated enforcement actions.
- In 2018, there were 45 construction inspections and no escalated enforcement actions.
- In 2017, there were 31 construction inspections and two escalated enforcement actions.
- In 2016, there were 36 construction inspections and no escalated enforcement actions.

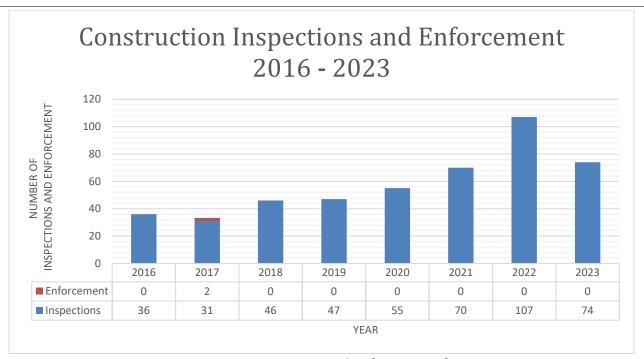


Figure 8. Construction Inspections and Enforcement from 2016-2023

### 5.7 POST-CONSTRUCTION STORMWATER MANAGEMENT

Table 15 summarized all post-construction related stormwater management. In 2023, there is one new post-construction BMP installation related project, completed in July 2023. Two inspections were conducted in 2023 to review proper post-construction BMP operations by Harbors (one at Pier 12 and one at Piers 51 to 53). Two post-construction BMP O&Ms were conducted in 2023. BMP maintenance is required through lease agreements, due diligence, property covenants, ROE/easements, etc. for Harbors tenants. 100% of tenants completed their PBMP inspections ain 2023, however, their records is still pending and to be provided to Harbors.

Table 15. Post-Construction Stormwater Management		
Description	Response	
Estimated percentage of new development/redevelopment projects adequately regulated for post-construction stormwater control	100 %	
Number of completed projects involving new permanent BMPs	1	
Site inspections (for proper BMP operation) completed	2	
BMP maintenance required through lease agreements, due diligence and property covenants, ROE/easements, etc. Note: Data is from the 2023 calendar year.	1	

## 5.8 OPERATIONS AND MAINTENANCE

A total of 874.99 tons of debris was removed in 2023, which is slightly lower compared to 1,174.77 tons removed in 2022. The storm drain cleaning generated 10.23 cu ft of waste in 2023 which has decreased from 242.1 tons of waste removed in 2022. Harbors employees and tenants demonstrated their commitment to pollution prevention through the implementation and maintenance of proper BMPs.

Table 16. Operations and Maintenance		
Description	Response	
Average frequency of catch basin inspection and cleaning when needed	2 times/year	
Number of storm drain cleanings	223	
Quantity of screenings/debris removed from storm sewer infrastructure	10.23 cu ft	
Disposal or use of screenings (landfill, publicly owned treatment works (POTW), compost, beneficial use, etc.)	PVT Landfill	
<ul> <li>Vacuum truck(s) owned/leased by Harbors</li> </ul>	1	
Vacuum trucks specified in contracts	No	
% Structures cleaned with vacuum	100%	
% Structures cleaned with manual labor	0%	
<ul> <li>Rotary brush street sweepers owned/leased</li> </ul>	4	
Vacuum street sweepers specified in contracts	No	
Average frequency of street sweeping	2 times/week	
Quantity of sand/debris collected by sweeping	192.19 tons	

Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Landfill
Green Waste	4.7 tons
• Refuse	643.13 tons
Scrap Metals	24.74 tons
Human Waste	0
Used Batteries	2
Electronic Waste	0
Note: Data is from the 2023 calendar year.	·

Figure 9 shows the level of debris and waste removed due to small MS4 maintenance actions over the last eight years.

- In 2023, Harbors removed 4.7 tons of green waste, 643.13 tons of refuse, 192.19 tons of sweeper waste, 24.74 tons of scrap metal, and 10.23 cu ft of storm drain waste.
- In 2022, Harbors removed 7.04 tons of green waste, 745.39 tons of refuse, 165.41 tons of sweeper waste, 14.83 tons of scrap metal (corrected number), and 242.1 cu ft of storm drain waste.
- In 2021, Harbors removed 5.99 tons of green waste, 80.86 tons of refuse, 39.8 tons of sweeper waste, 13.97 tons of scrap metal, and 21.37 cu ft of storm drain waste.
- In 2020, Harbors removed 40.03 tons of green waste, 755.95 tons of refuse, 268.14 tons of sweeper waste, 51.39 tons of scrap metal, and 9.65 cu ft of storm drain waste.
- In 2019, Harbors removed 6.01 tons of green waste, 853.22 tons of refuse, 233.95 tons of sweeper waste, 29.41 tons of scrap metal, 4.55 tons of recycled metal, and 6.31 cu ft of storm drain waste.
- In 2018, Harbors removed 17.58 tons of green waste, 801.98 tons of refuse, 259.53 tons of sweeper waste, 26.48 tons of scrap metal, 3.77 tons of recycled metal, and 1.13 cu ft of storm drain waste.
- In 2017, Harbors removed 36.74 tons of green waste, 748.30 tons of refuse, 23 tons of sweeper waste, 15.80 tons of recycled material, 15 tons of recycled metal, and 4 cu ft of storm drain waste.
- In 2016, Harbors removed 50.66 tons of green waste, 845.33 tons of refuse, 23.11 tons of sweeper waste, 49.66 tons of recycled metal, and 12 cu ft of storm drain waste.

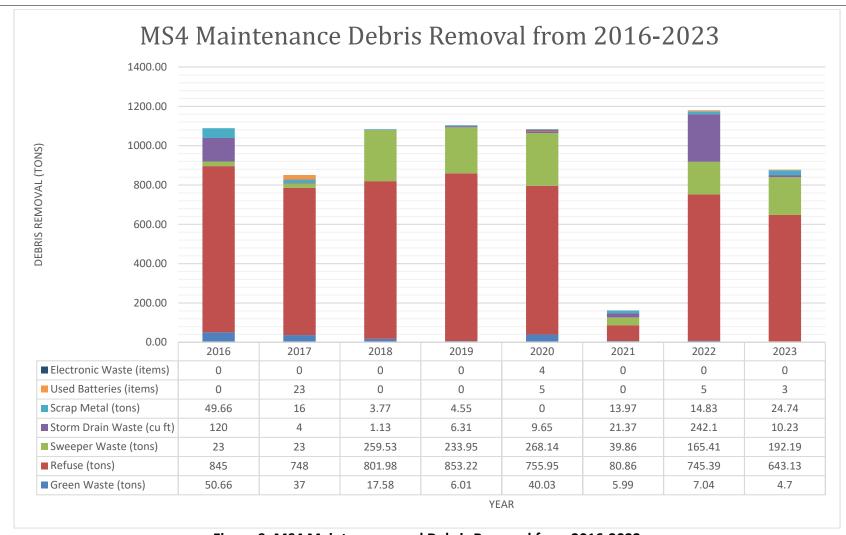


Figure 9. MS4 Maintenance and Debris Removal from 2016-2023

# **6.0 CONCLUSION**

Harbors continues to strive towards compliance with all requirements of the CWA and conditions of their NPGCs. The measurable goals that have been developed to gauge permit compliance and program effectiveness for each MCM has been deemed successful in 2023. All six MCMs are 100% in compliance.

Going forward, Harbors will continue to implement the updated SWMP, follow up with any potential non-compliance issues, and use best available efforts to stay compliance.