

---

## TABLE OF CONTENTS

<b>LIST OF APPENDICES</b> .....	<i>vii</i>
<b>LIST OF FIGURES</b> .....	<i>ix</i>
<b>LIST OF TABLES</b> .....	<i>xv</i>
<b>ACRONYMS AND ABBREVIATIONS</b> .....	<i>xvii</i>
<b>DEFINITIONS OF KEY TERMS</b> .....	<i>xxi</i>
<b>EXECUTIVE SUMMARY</b> .....	<i>ES-1</i>
 <b>CHAPTER 1. OVERVIEW OF STORM WATER MANAGEMENT PROGRAM PLAN</b>	
1.0 Program Organization .....	1-1
1.1 Purpose and Structure of SWMPP .....	1-2
1.2 Storm Water Regulations and Legal Authority .....	1-3
1.3 Asset Management System .....	1-3
 <b>CHAPTER 2. PUBLIC EDUCATION AND OUTREACH</b>	
2.0 Program Organization .....	2-4
2.1 Public Education Plan .....	2-5
2.2 Public Involvement and Participation .....	2-7
2.2.1 Public Service Programs .....	2-7
2.2.2 Community Partnerships .....	2-8
2.2.3 Public Review and Comment .....	2-8
2.3 Monitoring Program Effectiveness .....	2-9
 <b>CHAPTER 3. ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM</b>	
3.0 Program Organization .....	3-4
3.1 Connection Permits .....	3-5
3.1.1 Permitting New Connections .....	3-5
3.1.2 Permitting Existing Connections .....	3-6
3.2 Detecting Illegal Connections and Illicit Discharges .....	3-8
3.3 Outfall Field Screening .....	3-10
3.4 Investigating Illegal Connections and Illicit Discharges .....	3-12

---

3.5	Enforcement Policy .....	3-15
3.6	Spill Prevention and Response .....	3-16
3.7	Tracking Illegal Connections, Illicit Discharges, and Spills .....	3-21
3.8	Household Hazardous Waste Disposal .....	3-23
3.9	Training .....	3-25
3.10	Monitoring Program Effectiveness .....	3-27

**CHAPTER 4. CONSTRUCTION SITE RUNOFF CONTROL PROGRAM**

4.0	Program Organization .....	4-8
4.1	BMP Implementation .....	4-9
4.2	Inventory of Construction Projects .....	4-11
4.3	Plan Review and Permitting .....	4-13
	4.3.1 Project Plan Review and Approval .....	4-13
	4.3.2 Permitting .....	4-15
4.4	Inspections .....	4-17
	4.4.1 Initial Inspections .....	4-17
	4.4.2 Independent Inspections .....	4-17
	4.4.3 Corrective Action and Reporting Procedures .....	4-18
	4.4.4 Tracking Inspection Results .....	4-20
4.5	Enforcement .....	4-22
4.6	Construction BMP Training .....	4-24
4.7	Education .....	4-26
4.8	Monitoring Program Effectiveness .....	4-28

**CHAPTER 5. POST-CONSTRUCTION STORM WATER MANAGEMENT IN  
NEW DEVELOPMENT AND REDEVELOPMENT PROGRAM**

5.0	Program Organization .....	5-4
5.1	Low Impact Development .....	5-5
5.2	Project Plan Review .....	5-7
5.3	Tracking PBMPs .....	5-9
5.4	Education and Outreach .....	5-11
5.5	Training .....	5-13
5.6	Monitoring Program Effectiveness .....	5-14

---

**CHAPTER 6. POLLUTION PREVENTION/GOOD HOUSEKEEPING DEBRIS CONTROL BMPS PROGRAM**

6.0 Program Organization .....6-4

6.1 Asset Management System (AMS) .....6-5

6.2 Street Sweeping .....6-6

6.3 Storm Drain System Inspection and Cleaning .....6-12

6.4 Storm Drain Placards .....6-16

6.5 Action Plan for Retrofitting Structural BMPs .....6-18

6.6 Trash Reduction .....6-19

6.7 Monitoring Program Effectiveness .....6-20

**CHAPTER 7. POLLUTION PREVENTION/GOOD HOUSEKEEPING CHEMICAL APPLICATIONS BMPS PROGRAM**

7.0 Program Organization .....7-2

7.1 Chemical Applications Training .....7-3

7.2 Chemical Applications BMPs .....7-4

7.3 Monitoring Program Effectiveness .....7-8

**CHAPTER 8. POLLUTION PREVENTION/GOOD HOUSEKEEPING EROSION CONTROL BMPS PROGRAM**

8.0 Program Organization .....8-3

8.1 Identifying Erosional Areas .....8-4

8.2 Permanent Erosion Control BMPs .....8-7

8.3 Temporary Erosion Control BMPs .....8-10

8.4 Action Plan to Address Erosional Outfalls .....8-12

8.5 Maintenance Plan for Vegetation .....8-14

8.6 Monitoring Program Effectiveness .....8-16

**CHAPTER 9. POLLUTION PREVENTION/GOOD HOUSEKEEPING MAINTENANCE ACTIVITIES BMPS PROGRAM**

9.0 Program Organization .....9-2

9.1 Maintenance Activities BMPs .....9-2

9.2 Training .....9-5

9.3 Flood Control Project .....9-7

9.4 Monitoring Program Effectiveness .....9-10

---

**CHAPTER 10. INDUSTRIAL AND COMMERCIAL ACTIVITIES DISCHARGE  
MANAGEMENT PROGRAM**

10.0 Program Organization .....10-6

10.1 Connection and Discharge Permits .....10-7

    10.1.1 Permitting New Connections .....10-7

    10.1.2 Permitting Existing Connections .....10-8

    10.1.3 Permitting Discharge of Surface Runoff .....10-8

10.2 Facility Inventory .....10-10

    10.2.1 IC Database .....10-10

    10.2.2 Inventory and Map Deliverables .....10-10

10.3 Inspections .....10-13

    10.3.1 Inspection Procedures .....10-13

    10.3.2 Inspection Schedules .....10-13

10.4 Prioritized Areas Plan .....10-15

10.5 Commercial Facility Ranking .....10-17

    10.5.1 Facility Ranking Criteria .....10-17

    10.5.2 Facility Ranking Results .....10-18

10.6 Training .....10-20

10.7 SWPCP Review .....10-21

10.8 Enforcement .....10-23

    10.8.1 Addressing Deficiencies .....10-23

    10.8.2 Addressing Illicit Discharge Violations .....10-24

10.9 Monitoring Program Effectiveness .....10-26

**CHAPTER 11. MUNICIPAL INDUSTRIAL FACILITIES PROGRAM**

11.0 Program Organization .....11-2

11.1 Baseyard Overview .....11-3

    11.1.1 Baseyard Inspections .....11-5

    11.1.2 SWPCPs Implementation .....11-6

    11.1.3 BMP Implementation.....11-8

    11.1.4 Training .....11-10

11.2 Baseyard Descriptions .....11-12

    11.2.1 Keehi Baseyard .....11-12

---

11.2.2	Kakoi Baseyard .....	11-15
11.2.3	Pearl City Baseyard .....	11-18
11.2.4	Waianae Baseyard .....	11-21
11.2.5	Windward Baseyard .....	11-24
11.3	Monitoring Program Effectiveness .....	11-27

**CHAPTER 12. MONITORING PROGRAM**

12.0	Program Organization .....	12-3
12.1	Annual Monitoring Plan .....	12-4
12.2	Storm Water Monitoring at Baseyards .....	12-6
12.3	Annual Monitoring Report .....	12-8
12.4	Monitoring Program Effectiveness .....	12-10

**CHAPTER 13. TOTAL MAXIMUM DAILY LOAD PROGRAM**

13.0	Program Organization .....	13-3
13.1	Schedule of Compliance .....	13-4
13.2	Implementation and Monitoring Plans .....	13-6
13.3	I&M Plans for Future TMDLs .....	13-8
13.4	Monitoring Program Effectiveness .....	13-9

**CHAPTER 14. REPORTING PROGRAM**

14.0	Program Organization .....	14-4
14.1	Addressing Requirements .....	14-4
14.2	Annual Report Content .....	14-6

---

**This page intentionally left blank.**

---

## LIST OF APPENDICES

- A.**
  - A.1 DOT-HWYS' National Pollutant Discharge Elimination System (NPDES) Permit No. HI S000001 (MS4 Permit)
  - A.2 Consent Decree Civil Action No. CV05-00636-HG- KSC (Consent Decree)
  - A.3 Memorandum of Understanding with State of Hawaii Department of Health, 1999
  - A.4 Memorandum of Understanding with City and County of Honolulu, Department of Environmental Services and Department of Facility Maintenance, 2002
  
- B.**
  - B.1 Public Education and Outreach Plan
  - B.2 SWMPP Public Meeting Sign-in Sheet
  
- C.**
  - C.1 Application for a Private Storm Drain Connection and/or Discharge Permit to the State of Hawaii Highways Division Storm Drain System
  - C.2 Permit for Connection to the State Highways Drainage System
  - C.3 Outfall Field Screening Plan
  - C.4 IDDE Complaint MS4 Site Investigation Sheet
  
- D.**
  - D.1 Construction BMPs Field Manual
  - D.2 Site-Specific BMP Plan/Storm Water Pollution Prevention Plan Review Checklist
  - D.3 Permit to Perform Work Upon State Highways
  - D.4 Site-Specific BMP/Storm Water Pollution Prevention Inspection and Maintenance Report
  - D.5 Independent (Third Party) Inspection Checklist
  - D.6 Independent (Third Party) Inspection Checklist (Short Form)
  - D.7 Enforcement Response Plan
  - D.8 Permit Holders Guide to Understanding Storm Water
  
- E.**
  - E.1 Storm Water Permanent BMPs Manual
  
- F.**
  - F.1 Action Plan for Retrofitting Structural BMPs
  
- G.**
  - G.1 Chemical Applications Authorized Use List
  - G.2 Chemical Applications Training Plan
  
- H.**
  - H.1 Action Plan to Address Erosional Outfalls

- 
- H.2 Maintenance Plan for Vegetated Portions of the MS4
  
  - I.** I.1 Maintenance Activities BMPs Field Manual
  
  - J.** J.1 Permit to Discharge into the State Highways Drainage System  
J.2 Prioritized Area Plan for Industrial and Commercial Facility and Activity Inspections  
J.3 Industrial and Commercial Discharge Management Program Status Report  
J.4 Industrial and Commercial MS4 Site Investigation Sheet
  
  - K.** K.1 Debris Cleaning Assessment Plan  
K.2 Total Maximum Daily Load Implementation and Monitoring Plan, Ala Wai Canal Watershed Waste Load Allocation  
K.3 Total Maximum Daily Load Implementation and Monitoring Plan, Kawa Stream Watershed Waste Load Allocation  
K.4 Total Maximum Daily Load Implementation and Monitoring Plan, Waimanalo Stream Watershed Waste Load Allocation  
K.5 Total Maximum Daily Load Implementation and Monitoring Plan, Kapaa Stream Watershed Waste Load Allocation  
K.6 Total Maximum Daily Load Implementation and Monitoring Plan, Kaneohe Stream Watershed Waste Load Allocation
  
  - L.** L.1 Program Effectiveness Strategy



---

## LIST OF FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
Figure 2-1	Public Education Program Organizational Chart.....	2-4
Figure 2-2	Public Education Program Organizational Chart for Roles and Responsibilities Related to the Public Education Plan .....	2-6
Figure 3-1	IDDE Program Organizational Chart.....	3-4
Figure 3-2	IDDE Program Organizational Chart for Roles and Responsibilities Related to Issuing Connection Permits .....	3-7
Figure 3-3	IDDE Program Organizational Chart for Roles and Responsibilities Related to Detecting Illegal Connections and Illicit Discharges .....	3-9
Figure 3-4	IDDE Program Organizational Chart for Roles and Responsibilities Related to Outfall Field Screening.....	3-11
Figure 3-5	IDDE Program Organizational Chart for Roles and Responsibilities Related to the Investigation of Potential Illegal Connections and Illicit Discharges .....	3-14
Figure 3-6	IDDE Program Organizational Chart for Roles and Responsibilities Related to Enforcement.....	3-15
Figure 3-7	IDDE Program Organizational Chart for Roles and Responsibilities Related to Spill Prevention and Response .....	3-20
Figure 3-8	IDDE Program Organizational Chart for Roles and Responsibilities Related to Tracking Illegal Connections, Illicit Discharges, and Spills ..	3-22
Figure 3-9	IDDE Program Organizational Chart for Roles and Responsibilities Related to Household Hazardous Waste Disposal.....	3-24
Figure 3-10	IDDE Program Organizational Chart for Roles and Responsibilities Related to Training .....	3-26
Figure 4-1	Construction Program Organizational Chart .....	4-8
Figure 4-2	Construction Program Organizational Chart for Roles and Responsibilities Related to BMP Implementation.....	4-10
Figure 4-3	Construction Program Organizational Chart for Roles and Responsibilities Related to Construction Project Inventory .....	4-12
Figure 4-4	Construction Program Organizational Chart for Roles and Responsibilities Related to Plan Review and Permitting.....	4-16
Figure 4-5	Construction Program Organizational Chart for Roles and Responsibilities Related to Inspections .....	4-21

---

Figure 4-6	Construction Program Organizational Chart for Roles and Responsibilities Related to Enforcement .....	4-23
Figure 4-7	Construction Program Organizational Chart for Roles and Responsibilities Related to Training .....	4-25
Figure 4-8	Construction Program Organizational Chart for Roles and Responsibilities Related to Education .....	4-27
Figure 5-1	Post-Construction Program Organizational Chart .....	5-4
Figure 5-2	Post-Construction Program Organizational Chart for Roles and Responsibilities Related to Standards Revisions .....	5-6
Figure 5-3	Post-Construction Program Organizational Chart for Roles and Responsibilities Related to Project Plan Review .....	5-8
Figure 5-4	Post-Construction Program Organizational Chart for Roles and Responsibilities Related to Tracking and Inspecting PBMPs.....	5-10
Figure 5-5	Post-Construction Program Organizational Chart for Roles and Responsibilities Related to PBMP Education and Outreach .....	5-12
Figure 5-6	Post-Construction Program Organizational Chart for Roles and Responsibilities Related to Inspection and Maintenance Training.....	5-13
Figure 6-1	Debris Control Program Organizational Chart .....	6-4
Figure 6-2	Debris Control Program Organizational Chart for Roles and Responsibilities Related to the AMS .....	6-5
Figure 6-3	Group “A” and “B” Highway Street Sweeping Segments.....	6-9
Figure 6-4	Street Sweeping Module KPI.....	6-10
Figure 6-5	Street Sweeping Inspection by Status .....	6-11
Figure 6-6	Debris Control Program Organizational Chart for Roles and Responsibilities Related to the Street Sweeping Program.....	6-12
Figure 6-7	Manhole & Inlet Inspection KPI.....	6-13
Figure 6-8	Open Channel Inspection KPI .....	6-14
Figure 6-9	Debris Control Program Organizational Chart for Roles and Responsibilities Related to the Storm Drain Inspection and Cleaning Program .....	6-15
Figure 6-10	DOT-HWYS’ Storm Drain Placard .....	6-16
Figure 6-11	Placard Attribute Data.....	6-16
Figure 6-12	Debris Control Organizational Chart for Roles and Responsibilities Related to Storm Drain Placards.....	6-17

---

---

Figure 6-13	Debris Control Organizational Chart for Roles and Responsibilities Related to Retrofitting Structural BMPs.....	6-18
Figure 6-14	Debris Control Organizational Chart for Roles and Responsibilities Related to Trash Reduction.....	6-19
Figure 7-1	Chemical Applications Program Organizational Chart .....	7-2
Figure 7-2	Chemical Applications Program Organizational Chart for Roles and Responsibilities Related to Chemical Applications Training .....	7-3
Figure 7-3	Chemical Applications Program Organizational Chart for Roles and Responsibilities Related to the Implementation of Chemical Applications BMPs .....	7-7
Figure 8-1	Erosion Control Program Organizational Chart .....	8-3
Figure 8-2	Criteria Used to Designate Sites with the Potential for Significant Water Quality Impact.....	8-5
Figure 8-3	Erosion Control Program Organizational Chart for Roles and Responsibilities Related to Site Selection for Erosion Control Improvements .....	8-6
Figure 8-4	Erosion Control Program Organizational Chart for Roles and Responsibilities Related to Permanent Erosion Control Improvements .....	8-9
Figure 8-5	Erosion Control Program Organizational Chart for Roles and Responsibilities Related to Temporary Erosion Control Improvements .....	8-11
Figure 8-6	Erosion Control Program Organizational Chart for Roles and Responsibilities Related to the Action Plan to Address Erosional Outfalls.....	8-13
Figure 8-7	Erosion Control Program Organizational Chart for Roles and Responsibilities Related to the Maintenance Plan.....	8-15
Figure 9-1	Maintenance Activities Program Organizational Chart.....	9-2
Figure 9-2	Maintenance Activities Program Organizational Chart for Roles and Responsibilities Related to BMP Implementation.....	9-4
Figure 9-3	Maintenance Activities Program Organizational Chart for Roles and Responsibilities Related to Training.....	9-6
Figure 9-4	Punahou Pump Station.....	9-7
Figure 9-5	Maintenance Activities Program Organizational Chart for Roles and Responsibilities Related to the Punahou Pump Station .....	9-9

---

Figure 10-1	IC Program Organizational Chart .....	10-6
Figure 10-2	IC Program Organizational Chart for Roles and Responsibilities Related to Permitting .....	10-9
Figure 10-3	IC Program Organizational Chart for Roles and Responsibilities Related to Facility Inventories .....	10-12
Figure 10-4	IC Program Organizational Chart for Roles and Responsibilities Related to Inspections .....	10-14
Figure 10-5	IC Program Organizational Chart for Roles and Responsibilities Related to the Prioritized Area Plan .....	10-16
Figure 10-6	IC Program Organizational Chart for Roles and Responsibilities Related to Commercial Facility Ranking.....	10-19
Figure 10-7	IC Program Organizational Chart for Roles and Responsibilities Related to Training .....	10-21
Figure 10-8	IC Program Organizational Chart for Roles and Responsibilities Related to SWPCP Review.....	10-22
Figure 10-9	IC Program Organizational Chart for Roles and Responsibilities Related to Enforcement.....	10-25
Figure 11-1	Municipal Industrial Facilities Program Organizational Chart.....	11-2
Figure 11-2	Locations of DOT-HWYS' Oahu Baseyards.....	11-3
Figure 11-3	Municipal Industrial Facilities Program Organizational Chart for Roles and Responsibilities Related to Baseyard Inspections.....	11-5
Figure 11-4	Municipal Industrial Facilities Program Organizational Chart for Roles and Responsibilities Related to SWPCP Implementation .....	11-7
Figure 11-5	Municipal Industrial Facilities Program Organizational Chart for Roles and Responsibilities Related to BMP Implementation.....	11-9
Figure 11-6	Municipal Industrial Facilities Program Organizational Chart for Roles and Responsibilities Related to Training .....	11-11
Figure 11-7	Site Map of Keehi Baseyard .....	11-13
Figure 11-8	Site Map of Kakoi Baseyard.....	11-16
Figure 11-9	Site Map of Pearl City Baseyard.....	11-19
Figure 11-10	Site Map of Waianae Baseyard.....	11-22
Figure 11-11	Site Map of Windward Baseyard.....	11-25
Figure 12-1	Monitoring Program Organizational Chart.....	12-3
Figure 12-2	Monitoring Program Organizational Chart for Roles and Responsibilities Related to the Annual Monitoring Plan.....	12-5

---

---

Figure 12-3	Monitoring Program Organizational Chart for Roles and Responsibilities Related to Storm Water Monitoring at Baseyards.....	12-7
Figure 12-4	Monitoring Program Organizational Chart for Roles and Responsibilities Related to the Annual Monitoring Report.....	12-9
Figure 13-1	TMDL Program Organizational Chart.....	13-3
Figure 13-2	TMDL Program Organizational Chart for Roles and Responsibilities Related to the Schedule of Compliance .....	13-5
Figure 13-3	TMDL Watersheds with WLA reductions assigned to DOT-HWYS .....	13-6
Figure 13-4	TMDL Program Organizational Chart for Roles and Responsibilities Related to the I&M Plans.....	13-7
Figure 13-5	TMDL Program Organizational Chart for Roles and Responsibilities Related to the I&M Plans for Future TMDLs.....	13-8
Figure 14-1	Reporting Program Organizational Chart .....	14-4

---

**This page intentionally left blank.**

---

**LIST OF TABLES**

<u>Table</u>	<u>Title</u>	<u>Page</u>
Table 2-1	MS4 Permit Requirements for the Public Education Program .....	2-1
Table 2-2	Standards/Milestones for the Public Education Program .....	2-9
Table 3-1	MS4 Permit Requirements for the IDDE Program .....	3-1
Table 3-2	Consent Decree Requirements for the IDDE Program .....	3-3
Table 3-3	Illicit Discharge and Spill Response Notification Procedures .....	3-18
Table 3-4	Standards/Milestones for the IDDE Program .....	3-27
Table 4-1	MS4 Permit Requirements for the Construction Program .....	4-1
Table 4-2	Consent Decree Requirements for the Construction Program .....	4-5
Table 4-3	Standards/Milestones for the Construction Program .....	4-28
Table 5-1	MS4 Permit Requirements for the Post-Construction Program .....	5-1
Table 5-2	Standards/Milestones for the Post-Construction Program .....	5-14
Table 6-1	MS4 Permit Requirements for the Debris Control Program .....	6-1
Table 6-2	Consent Decree Requirements for the Post-Construction Program .....	6-3
Table 6-3	Schedule Category for Group “A” Highway Street Sweeping Segments .....	6-6
Table 6-4	Schedule Category for Group “B” Highway Street Sweeping Segments .....	6-8
Table 6-5	Standards/Milestones for the Debris Control Program .....	6-20
Table 7-1	MS4 Permit Requirements for the Chemical Applications Program .....	7-1
Table 7-2	Standards/Milestones for the Chemical Applications Program .....	7-8
Table 8-1	MS4 Permit Requirements for the Erosion Control Program .....	8-1
Table 8-2	Consent Decree Requirements for the Erosion Control Program .....	8-2
Table 8-3	Permanent Erosion Control Projects .....	8-7
Table 8-4	Temporary Erosion Control Sites .....	8-10
Table 8-5	Standards/Milestones for the Erosion Control Program .....	8-16

---

Table 9-1	MS4 Permit Requirements for the Maintenance Activities Program .....	9-1
Table 9-2	Consent Decree Requirements for the Maintenance Activities Program.....	9-2
Table 9-3	Standards/Milestones for the Maintenance Activities Program.....	9-10
Table 10-1	MS4 Permit Requirements for the IC Program.....	10-1
Table 10-2	Consent Decree Requirements for the IC Program.....	10-5
Table 10-3	Standards/Milestones for the IC Program.....	10-26
Table 11-1	MS4 Permit Requirements for the Municipal Industrial Facilities Program .....	11-1
Table 11-2	Consent Decree Requirements for the Municipal Industrial Facilities Program .....	11-2
Table 11-3	Standards/Milestones for the Municipal Industrial Facilities Program ...	11-27
Table 12-1	MS4 Permit Requirements for the Monitoring Program .....	12-1
Table 12-2	Standards/Milestones for the Monitoring Program.....	12-10
Table 13-1	MS4 Permit Requirements for the TMDL Program .....	13-1
Table 13-2	Standards/Milestones for the TMDL Program .....	13-9
Table 14-1	MS4 Permit Requirements for the Reporting Program.....	14-1
Table 14-2	Consent Decree Requirements for the Reporting Program.....	14-2
Table 14-3	Additional MS4 Permit Reporting Requirements.....	14-5



---

## ACRONYMS AND ABBREVIATIONS

AMS	Asset Management System
BAT	Best Available Technology
BCT	Best Conventional Pollutant Control Technology
BMP	Best Management Practice
CCH	City and County of Honolulu
CFR	Code of Federal Regulations
CON	State of Hawaii Department of Transportation, Highways Division, Contracts Office
CPMS	Construction Project Management System
CWA	Clean Water Act
CWB	State of Hawaii Department of Health, Clean Water Branch
DCA	Debris Cleaning Assessment
DFM	City and County of Honolulu's Department of Facility Maintenance
DMR	Discharge Monitoring Report
DMS	Data Management System
DOH	State of Hawaii Department of Health
DOT-HWYS	State of Hawaii Department of Transportation, Highways Division, Oahu District
EC	Emergency Coordinator
EDOP	Effective Date of the MS4 Permit
EMS	Environmental Management System
ENV	City and County of Honolulu's Department of Environmental Services
ERP	Enforcement Response Plan
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act

---

GIS	Geographic Information System
HAR	Hawaii Administrative Rules
HAZMAT	Hazardous Material
HEER	Hazard Evaluation and Emergency Response
HFD	City and County of Honolulu Fire Department
HHW	Household Hazardous Waste
HPD	City and County of Honolulu Police Department
HRS	Hawaii Revised Statutes
HWY-C	State of Hawaii Department of Transportation, Highways Division, Construction and Maintenance Branch
HWY-D	State of Hawaii Department of Transportation, Highways Division, Design Branch
HWY-DE	State of Hawaii Department of Transportation, Highways Division, Design Branch, Environmental Permitting and Project Compliance Section
HWY-L	State of Hawaii Department of Transportation, Highways Division, Materials Testing and Research Branch
HWY-O	State of Hawaii Department of Transportation, Highways Division, Oahu District (For the purpose of this document, HWY-O specifically refers to staff of DOT-HWYS)
HWY-OM	State of Hawaii Department of Transportation, Highways Division, Oahu District, Maintenance Section
HWY-OR	State of Hawaii Department of Transportation, Highways Division, Oahu District, Rural Construction Section
HWY-OT	State of Hawaii Department of Transportation, Highways Division, Oahu District, Tunnel Operations Section
HWY-OU	State of Hawaii Department of Transportation, Highways Division, Oahu District, Urban Construction Section
HWY-OW	State of Hawaii Department of Transportation, Highways Division, Oahu District, Environmental Management Section

---

HWY-P	State of Hawaii Department of Transportation, Highways Division, Planning Branch
HWY-R	State of Hawaii Department of Transportation, Highways Division, Right-of-Way Branch
HWY-T	State of Hawaii Department of Transportation, Highways Division, Traffic Branch
IDDE	Illicit Discharge Detection and Elimination
IC	Industrial and Commercial
I&M Plan	Implementation and Monitoring Plan
KPI	Key Performance Indicators
LID	Low Impact Development
MEP	Maximum Extent Practicable
MOU	Memorandum of Understanding
MS4	Municipal Separate Storm Sewer System
MS4 SIS	MS4 Site Investigation Sheet
NGPC	Notice of General Permit Coverage
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PBMP	Permanent Best Management Practice
PID	Point Identification Number
ROW	Right-of-Way
SIC	Standard Industrial Classification
SSBMP	Site-Specific Best Management Practice
SWMP	Storm Water Management Program
SWMPP	Storm Water Management Program Plan

---

SWPCP	Storm Water Pollution Control Plan
SWPPP	Storm Water Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TMK	Tax Map Key
TN	Total Nitrogen
TOB	Top of Bank
TP	Total Phosphorous
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
WLA	Waste Load Allocation

---

## DEFINITIONS OF KEY TERMS

**Best Management Practice (BMP)** – According to 40 CFR § 122.2, schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**Clean Water Act (CWA)** – The Clean Water Act is an act passed by the U.S. Congress to control water pollution. It was formerly referred to as the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972 (Public Law 92-500), 33 U.S.C. 1251 et seq., as amended by Public Law 96-483, Public Law 97-117, and Public Laws 95-217, 97-117, 97-440, and 100-04.

**Code of Federal Regulations (CFR)** – The document that codifies all rules of the executive departments and agencies of the federal government. It is divided into fifty volumes, known as titles. Title 40 of the CFR (referenced as 40 CFR) lists all environmental regulations.

**Connection Permit** – A permit issued by DOT-HWYS for a physical connection into the MS4.

**Consent Decree** – Consent Decree Civil Action No. CV05-00636-HG- KSC.

**Construction Activity** – The act or process of developing or improving land which involves the disturbance of land, and includes clearing, grading, and excavation.

**Contract Construction Project** – A construction activity, which is designed either by DOT-HWYS' personnel or by DOT-HWYS' engineering consultant firms, and is constructed by a private contractor.

**Critical Deficiencies** – Those deficiencies that pose an immediate threat for the discharge of pollutants to the storm drain system, surface water, or State Waters. Critical deficiencies include, but are not limited to, the following examples:

- (1) Any observed discharge, or evidence of discharge, of untreated storm water or non-storm water to the storm drain system, surface waters, or State Waters generated by construction activity.
- (2) Absence of linear barriers and/or perimeter controls required by the BMP Plan.
- (3) There are identified storm drain inlets, surface waters, or State Waters within or adjacent to the project site in close proximity to disturbed soil areas without control measures in place that pose an immediate threat of untreated storm water discharges.
- (4) Work in an active stream channel or other surface water body without proper implementation of required BMPs.
- (5) Presence of any spilled oil or hazardous materials near to unprotected storm drain inlet, surface waters, or State Waters.

---

**CWA Section 303(d) List** – Under Section 303(d) of the Clean Water Act, states are required to compile a list of impaired waters that fail to meet any of their applicable water quality standards or cannot support their designated or existing uses. This list, called a “303(d) list” is submitted to Congress every two years, and states are required to develop a total maximum daily load (TMDL) for each pollutant causing impairment for water bodies on the list.

**Discharge** – Any liquid, semi-solid, or solid substance that is released into and from the MS4.

**Discharge Permit** – A permit issued by DOT-HWYS to discharge storm water runoff into the MS4.

**Disturbance of Land** – The penetration, turning, or moving of soil or resurfacing of pavement with exposure of the base course or the exposure of bare soil or ground surface; including the land surface exposed by construction roads, baseyards, staging areas, demolition, headquarters, and parking areas. It includes “grubbing” in its normal meaning of the use of equipment to knock down and push vegetation out of the way, typically uprooting vegetation and disturbing the ground surface.

**Encroachment Permit** – A permit (e.g., Permit to Perform Work Upon State Highways, Permit to Discharge into the State Highways Drainage System, Permit to Connect to the State Highways Drainage System, etc.) issued by DOT-HWYS for activities undertaken by a non-DOT-HWYS entity (i.e., third party) that will occur within or affect DOT-HWYS’ right-of-way.

**Encroachment Permit Construction Projects** – Construction activity that occurs within DOT-HWYS’ right-of-way and is not under the authority (funding) of or administered by DOT-HWYS. Encroachment permit construction projects are required to obtain a Permit to Perform Work Upon State Highways prior to construction activities commencing.

**Erosion Control** – Stabilizing a disturbed or exposed surface area in order to prevent soil particles from being detached and causing sediment accumulation in nearby surface waters.

**Good Housekeeping** – A common practice related to the storage, use, or cleanup of materials performed in a manner that minimizes the discharge of pollutants.

**Household Hazardous Waste** – Leftover household products that contain corrosive, toxic, ignitable, or reactive ingredients.

**Illegal Connection** – Any connection to the MS4 that is not permitted by a connection permit from DOT-HWYS.

**Illicit Discharge** – Any discharge that is not composed entirely of storm water, with the exception of the following types of discharges (provided that they do not contain pollutants in amounts that will cause or contribute to a violation of an applicable water quality standard):

- Water line flushing;
- Landscape irrigation;

- 
- Diverted stream flows;
  - Rising ground waters;
  - Uncontaminated ground water infiltration (as defined in 40 CFR § 35.2005(20));
  - Uncontaminated pumped ground water;
  - Discharges from potable water sources and foundation drains;
  - Air conditioning condensate;
  - Irrigation water;
  - Springs;
  - Water from crawl space pumps and footing drains;
  - Lawn watering runoff;
  - Water from individual residential car washing;
  - Water from charity car washes;
  - Flows from riparian habitats and wetlands;
  - Dechlorinated swimming pool discharges;
  - Exterior building wash water (water only);
  - Residual street wash water (water only), including wash water from sidewalks, plazas, and driveways, but excluding parking lots; and
  - Discharges or flows from fire fighting activities.

**Independent Inspections** – Site inspections conducted on contract and encroachment permit construction projects by an independent inspector.

**Independent Inspector** – A qualified construction inspector that is not involved in a construction projects’ day-to-day planning, design, or implementation.

**Low Impact Development (LID)** – A comprehensive land planning and engineering design approach with a goal of maintaining and enhancing the pre-development hydrologic regime of urban and developing watersheds.

**Major Deficiencies** – Those deficiencies that are significant problems which could result in the discharge of pollutants to the storm drain system, surface waters, or State Waters. Major deficiencies include, but are not limited to, the following examples:

- (1) No BMP Plan or NPDES permit (if required).
- (2) Linear barriers and/or perimeter controls in areas tributary to a water body or drain inlet are installed as required by the BMP Plan, but are not functional. This includes silt fences that are not anchored properly, have collapsed, been driven over or overwhelmed by accumulated sediment.
- (3) Hazardous materials or waste is stored within the project without containment or implementation of BMPs.

- 
- (4) Oil, fuel, or brake or transmission fluid spills covering more than one square yard and/or adjacent to protected storm drain inlets, surface waters, or State Waters.
  - (5) Any discharge of sediment or other deleterious material resulting from dewatering operations conducted without implementation of required BMPs for dewatering.
  - (6) Sediment tracking more than 50 feet from project ingress/egress location(s).
  - (7) Expansion of the active disturbed soil area limit without written approval.
  - (8) Soil stabilization and sediment controls are not installed in accordance with applicable construction site BMP Plan.
  - (9) Sediment controls are installed in accordance with the BMP Plan, but there is a large unstabilized disturbed soil area with insufficient controls down gradient to prevent the discharge of untreated storm water to the storm drain system, surface waters, or State Waters if a rain event generates runoff.
  - (10) Dust from project site visibly blowing off the site and into storm drain conveyances or adjacent surface water bodies.

**Minor Deficiencies** – Those deficiencies that do not pose a threat for discharge of untreated storm water or pollutants to the storm drain system, surface waters, or State Waters, but are not in strict conformance with the SWPPP or BMP Plan. Minor deficiencies include, but are not limited to, the following examples:

- (1) BMP Plan does not reflect current operations and an amendment is recommended.
- (2) BMPs are not deficient, but are not consistent with the BMP Plan.
- (3) Linear barriers and/or perimeter controls are installed as required by the BMP Plan, but require minor maintenance. For example, a silt fence which is not anchored properly throughout the entire length of an inlet protection device with some accumulated silt.
- (4) Soil stabilization or sediment controls are installed as required by the BMP Plan, but not properly maintained.
- (5) Site inspections by project staff are not being conducted at the required frequencies.
- (6) Non-storm water or waste management BMPs improperly maintained.
- (7) Oil, fuel, or brake or transmission fluid spills covering less than one square yard and not adjacent to storm drain inlets, surface waters, or State Waters.
- (8) Evidence of active wind erosion on unstabilized slopes/stock piles.
- (9) Minor tracking less than 50 feet from project ingress/egress locations.
- (10) Major deficiencies which are corrected prior to the inspector leaving the site.

**MS4 Permit** – National Pollutant Discharge Elimination System Permit No. HI S000001

**Municipal Separate Storm Sewer System (MS4)** – A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned by a state, city, town, or other public body, that is



---

designed or used for collecting or conveying storm water, that is not a combined sewer, and that is not part of a publicly owned treatment works [40 CFR122.26(b)(8)].

**National Pollutant Discharge Elimination System (NPDES)** – The national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the CWA.

**Notice of Intent (NOI)** – Form completed and signed by a construction site operator or an industrial facility operator notifying the DOH that the operator will comply with an applicable NPDES general permit.

**Nutrients** – Any substance assimilated by living things that promotes growth. The term is generally applied to nitrogen and phosphorus in wastewater, but is also applied to other essential and trace elements.

**Outfall** – Outfall is a point source where the MS4 discharges to State Waters and does not include open conveyances connecting two MS4s, pipes, tunnels, or other conveyances which connect segments of the same stream or State Waters and are used to convey State Waters [40 CFR 122.26(b)(9)].

**Permanent Best Management Practice (PBMP)** – A specific practice intended to reduce storm water volume and/or the pollution typically associated with storm water runoff. Such practices may include LID design features, source control methods, or manufactured devices designed to capture pollutants.

**Pollutants** – Refer to the waste material that contaminates air, soil, or water. In the context of storm water quality, pollutants often refer to the following:

- Nutrients - phosphorous and nitrogen;
- Suspended solids - sediment suspended in the water;
- Organic carbon and hydrocarbons;
- Bacteria;
- Trace metals;
- Pesticides; and
- Trash and debris.

**Program Element** – Individual programs that comprise DOT-HWYS' overall Storm Water Management Program (i.e., Public Education and Outreach Program, Construction Runoff Control Program, etc.)

**Redevelopment Project** – A project that consists of reconstruction of or new construction on an existing impervious area exceeding 5,000 square feet.

---

**Routine Maintenance Projects** – Scheduled or cyclical projects performed to preserve the life of a system; to restore the original function or delay the deterioration of an existing asset without substantially increasing its structural capacity; or to maintain the original line and grade, hydraulic capacity or original purpose of a facility, system or asset, in which land disturbance does not go beyond the original footprint of the previous structure.

**Sediment** – Organic or inorganic material that is carried by or is suspended in water and that settles out to form deposits in the storm drain system or receiving waters.

**Service Contractor** – The contractor or contractors procured by DOT-HWYS in order to provide various services.

**Sheet Flow** – Flow that occurs overland in places without defined channels. The flood water spreads out over a large area at a uniform depth. Also referred to as overland flow.

**Site** – Any location in the State of Hawaii that DOT-HWYS owns, leases, or operates, and at which there is or will be construction resulting in ground-disturbing activities greater than or equal to one acre or that is otherwise subject to the NPDES storm water construction regulations set forth at 40 CFR § 122.26(b)(14)(x) or 40 CFR § 122.26(b)(15).

**Source Control BMP** – Appropriate operational or structural measures that prevent or reduce pollutants from entering storm water. Examples of operational source control BMPs include good housekeeping practices, spill prevention, and employee training. Structural source control BMPs consist of enclosures or roofs for working areas where pollutants are present or installing devices that direct contaminated storm water to appropriate treatment BMPs.

**State Waters** – As defined by section 342D-1, HRS, means all waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, ground waters, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. In accordance with HAR 11-54-1, this definition applies to all State Waters, including wetlands, subject to the following exceptions: (1) This chapter [HAR 11-54-1] does not apply to groundwater, except the director may in the director's discretion take appropriate actions when the director believes that the discharge of pollutants to the ground or groundwater has adversely affected, is adversely affecting, or will adversely affect the quality of any State Water other than groundwater. (2) This chapter does not apply to drainage ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system. (3) This chapter does not apply to drainage ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into or otherwise adversely affect the quality of any other State Waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined in 40 C.F.R. section 122.2. The State of Hawaii has those boundaries stated in the Hawaii Constitution, art. XV § 1.

**Storm Water** – Water that accumulates on land as a result of storms and can include runoff from urban areas such as roads and highways.

---

**Storm Water Runoff** – Precipitation which flows over the ground.

**Swale** – An elongated depression in the land surface that is at least seasonally wet, usually heavily vegetated, and normally without flowing water. Swales discharge storm water into primary drainage channels and may provide some groundwater recharge.

**Top of Bank (TOB)** – The break in slope between the bank and surrounding terrain. TOB is the point closest to the boundary of the active floodplain of a stream where a break in the slope of the land occurs.

**Total Maximum Daily Load (TMDL)** – A TMDL establishes the maximum amount of an impairing substance or stressor that a water body can assimilate and still meet Water Quality Standards and allocates that load among pollution contributors. TMDLs are also a tool for implementing State Water quality standards. They are based on the relationship between pollution sources and in-stream water quality conditions. A TMDL addresses a single pollutant or stressor for each water body.

**Waste Load Allocation (WLA)** – The maximum quantity of pollutants each discharger of waste is allowed to release into a particular waterway as set by an authority. Discharge limits are usually required individually for each specific water quality criterion.

**Water Quality Standards** – State adopted and USEPA-approved ambient standards for water bodies. The standards prescribe the use of water body and establish the water quality criteria that must be met to protect water bodies.

**Watershed** – The area of land that catches rain and snow and drains or seeps into a receiving water such as marsh, stream, river, lake, or ocean.

---

**This page intentionally left blank.**