

Appendix H1: CCH Storm Water Training Program Plan, 2016





Storm Water Training Program Plan

**For the City and County of Honolulu
Municipal Separate Storm Sewer System
National Pollutant Discharge Elimination System
Permit No. HI S000002**

Final

February 2016

**Prepared by
Department of Facility Maintenance, Storm Water Quality Branch
City and County of Honolulu**



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Definition and Acronyms

BMP	Best Management Practices
City	City and County of Honolulu
CSM	Collection System Maintenance Division, Department of Environmental Services, City and County of Honolulu
CWB	Clean Water Branch, Department of Health, State of Hawaii
DOH	Department of Health, State of Hawaii
DOT	Department of Transportation, State of Hawaii
DDC	Department of Design and Construction, City and County of Honolulu (from July 1, 1998)
DFM	Department of Facility Maintenance, City and County of Honolulu (from July 1, 1998)
DPP	Department of Planning and Permitting, City and County of Honolulu (from July 1, 1998)
DRM	Road Maintenance Division, Department of Facility Maintenance, City and County of Honolulu
ENV	Department of Environmental Services, City and County of Honolulu (from July 1, 1998)
EPA	Environmental Protection Agency
HAZMAT	Hazardous Materials Response Units, Honolulu Fire Department, City and County of Honolulu
LOW	Letter of Warning
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NOO	Notice of Order
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
Permit	National Pollutant Discharge Elimination System Permit No. HI S000002
ROH	Revised Ordinances of the City and County of Honolulu
State	State of Hawaii
SWMPP	Storm Water Management Program Plan
SWPCP	Storm Water Pollution Prevention Plan
SWQ	Storm Water Quality Branch, Department of Facility Maintenance, City and County of Honolulu
TMK	Tax Map Key

References

“Field Screening Plan,” City and County of Honolulu, (to be submitted February 2016)

“Inspection Program and Enforcement Response Plan for Construction Sites,” City and County of Honolulu, (to be submitted February 2016)

“Memorandum of Agreement Between Departments Covered Under NPDES Permit HI S000002,” City and County of Honolulu, 2012

“Memorandum of Understanding between the Department of Health, Environmental Management Division, State of Hawaii and the Department of Public Works, City and County of Honolulu,” October 11, 1995.

“Memorandum of Understanding between the Department of Transportation, Highways Division, State of Hawaii, and City and County of Honolulu Department of Environmental Services and Department of Facility Maintenance,” February 2, 2002.

“Program to Prevent and Respond to Spills to the MS4,” City and County of Honolulu, February 2016.

Revised Ordinances of Honolulu, Chapter 14, Article 12, Drainage, Flood and Pollution Control, September 1996.

“Rules Relating to Soil Erosion Standards and Guidelines,” Department of Planning and Permitting, City and County of Honolulu, dated April 1999.

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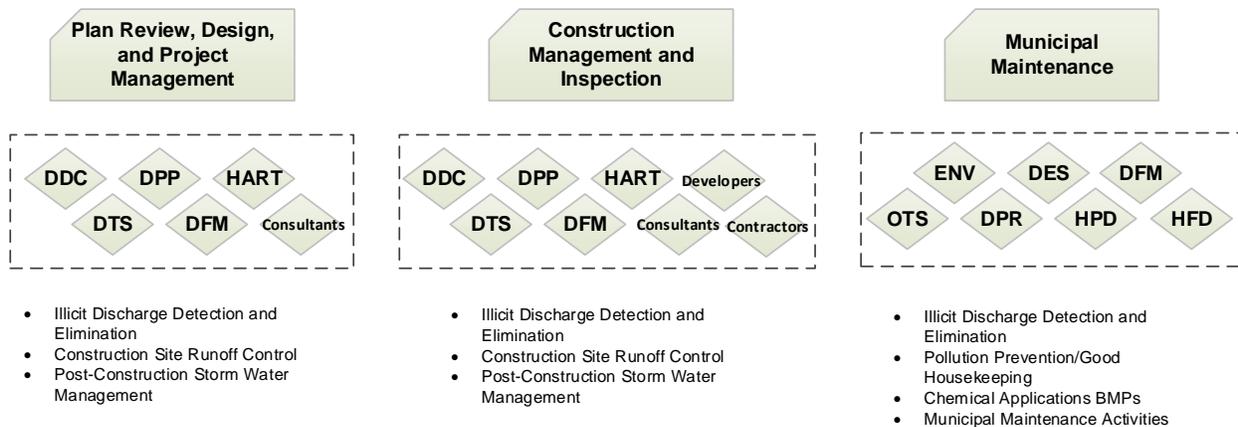
1. Introduction

The City and County of Honolulu (City) is authorized to discharge storm water runoff under the City and County of Honolulu’s (City) municipal separate storm sewer system (MS4) National Pollutant Discharge Elimination System (NPDES) Permit No. HI S000002 (Permit), effective February 16, 2015, issued by the State of Hawaii (State), Department of Health (DOH). The permit requires training to staff on the various permit elements applicable to their job responsibilities.

The subject Training Program Plan will help the City to map its storm water training program to meet the requirements of the NPDES MS4 permit for the current permit term. The focus of this plan is to guide development and implementation of a tailored training program that will protect or improve the quality of our waters in a comprehensive, cost effective, and responsible manner.

2. Current Training Program Plan

The City and County of Honolulu currently offers storm water training to its employees in accordance with the requirements of its NPDES MS4 permit. Employees are trained to perform their respective job duties while implementing procedures to prevent storm water pollution. Employee training is accomplished using classroom, DVD-based, online and on-the-job (field) methods. Annual training is provided to all employees as identified in the permit. An employee is typically trained within a couple months of employment and annually thereafter.



The training content is modified annually to reflect changes in regulations or to improve delivery based on feedback from the Department of Facility Maintenance (DFM) Storm Water Quality Branch (SWQ). SWQ also identifies targeted training topics and groups they see to be a priority based on requests and deficiencies. While the training program has been evolving effectively, a more comprehensive training program is needed to accelerate employee learning and to keep up with changing regulations.

3. Training Program Plan Development Considerations

a. 2013 EPA Audit

The City’s MS4 program was audited in April 2013 by the U.S. Environmental Protection Agency’s (EPA) contractor, PG Environmental, LLC and staff from DOH. The audit identified potential permit violations and deficiencies in the City’s current MS4 training program. These deficiencies are listed with each of the permit elements as part of the training program plan. Addressing these issues will be priorities to be addressed in the first 2 years the current permit term.

Outside of the training program, the audit identified the need to implement a dedicated third-party storm water inspection program. The third-party storm water inspectors will complete more thorough inspections with respect to storm water management than City inspectors – whose primary role is to enforce other City ordinances – would do normally. Third party storm water inspectors will also be used to assess the adequacy and effectiveness of the City’s ongoing inspections program and further develop training materials.

b. Training Needs Survey

The training program is adjusted annually based on feedback from SWQ staff. However, additional training is needed to ensure compliance with the NPDES MS4 permit. A Training Needs Survey has been developed to address 3 training considerations:

1. Training accessibility
2. Training program topics and levels
3. Storm water awareness

The survey is included in Attachment 1, which will be distributed to all levels of City staff that are required by the permit to receive training. The results of the survey will be used to develop the training program schedule for the current permit term. Departments, divisions, and job responsibilities of survey takers will be tracked with the answers to provide data needed to tailor training sessions for specific audiences, training levels and schedules. In addition, the storm water awareness section will be given annually to track if training is also creating a cultural change.

Consultant design engineers and construction managers often work as an extension of City staff and therefore play a large role on the City’s construction projects. The survey in Attachment 1 would be distributed through professional associations to individual consultants that provide engineering and construction services on City projects. Examples of external parties include: Hawaii Council of Engineering Societies, American Society of Civil Engineers (ASCE), American Public Works Association (APWA), Construction Management Association of America (CMAA), American Planning Association of Hawaii (APA-Hawaii), Landscape Industry Council of Hawaii (LICH) and American Society of Landscape Architects (ASLA).

Training for developers, contractors and subcontractors that have the potential to inadvertently cause or contribute to violations of the permit, is also being considered. This training is not required by the permit; it can, however, be extremely beneficial to site owners. The survey in Attachment 2 would be distributed to individuals from these parties in order to prioritize needs. The survey would be distributed through professional associations such as, Building Industry Association of Hawaii, General Contractors Association, and NAIOP Hawaii.

Contractors are often employed to supplement City municipal maintenance roles, therefore they have the same potential to create storm water pollution. These contractors would receive the same training as the City as part of the training plan for Pollution Prevention/Good Housekeeping.

Results from the training needs surveys will be tabulated and findings will be used to develop the training curriculum and prioritize training needs such as topics and audiences. A tentative training schedule for priority audiences or topics will be developed for the permit term and included in this plan. The schedule will be reevaluated each year as part of the annual reporting process.

4. Training Program Plan

This section describes the training program plan for each storm water program element. The minimum training requirements identified in the NPDES MS4 Permit are provided for reference. As part of the 2015 SWMPP, goals were identified, for which performance measures could be developed to track training effectiveness. The issues identified by the 2013 EPA Audit are included with the corresponding permit section. Training for Permit Year 1 has been identified for the priority audiences and topics based on the 2013 Audit findings. The training survey will be conducted by Spring 2016 and a training schedule for the remaining permit term will be developed thereafter.

a. Illicit Discharge Detection and Elimination

Text from the permit has been provided below (in italics) with the corresponding permit reference numbers.

Part D.1.c.(9): “Training. The Permittee shall continue to provide annual training to staff on identifying and eliminating illicit connections, illegal discharges, and spills to the MS4. At a minimum, the staff trained shall include Department of Planning and Permitting and Department of Design and Construction inspectors, Department of Facility Maintenance field staff, ENV inspectors and field staff, and code compliance officers.”

The goals of this program element are to:

- Maintain a training program for field staff who may observe illicit discharges and connections during the course of their duties.
- Maintain a training program for staff who are responsible for identification of illicit discharges and connections, and necessary follow-up.
- Create awareness of the negative impacts that illicit discharges and illegal connections have on the environment and the importance of reporting violations.
- Reduce the unauthorized and illegal discharge of pollutants to the City’s MS4 to the MEP.

2013 EPA Audit Findings:

- No direct training deficiencies identified for the Illicit Discharge Detection and Elimination Program Element

Training Survey Findings:

- To be determined

Training Curriculum Plan

Illicit Discharge Detection and Elimination

Permit Year	Target Audience	Topic	Method of Training
1 (FY16)		Training Survey	
2 (FY17)	To be determined		
3 (FY18)	To be determined		
4	To be determined		

Training Curriculum Plan
Illicit Discharge Detection and Elimination

Permit Year	Target Audience	Topic	Method of Training
(FY19)			
5 (FY20)	To be determined		

b. Construction Site Runoff Control

Text from the permit has been provided below (in italics) with the corresponding permit reference numbers.

Part D.1.d.(8): “Training. The Permittee shall review and improve its training activities to provide annual training to employees in targeted positions (whose jobs or activities are engaged in construction activities including plan review and construction inspection staff) regarding the requirements of the updated SWMP and this permit.”

The goals of this program element are to:

- Maintain a training program for staff who are responsible for plan review, inspections and enforcement.
- Enable a better understanding on the part of City inspectors and construction managers of the requirements of the MS4 NPDES permit, which in turn will allow them to promote storm water pollution prevention throughout all levels of workers on their construction sites.
- Provide plan reviewers with training to effectively evaluate plans for construction site runoff control measures that will reduce to the MEP the discharge of pollutants from construction sites.
- Reduce the discharge of pollutants from both private and public construction sites to the MEP.

2013 EPA Audit Findings:

- *2.3.4(a) The City’s inspector training activities are inadequate. (Permit Part D.1.d.(7))*
 Part D.1.d.(7) of the Permit requires the City to annually train employees in targeted positions (whose jobs or activities are engaged in construction activities including plan review and construction inspection staff) regarding the requirements of the SWMP and the Permit. The statements from on-site inspectors, coupled with the observed site deficiencies, implies serious failures regarding training of City inspectors and third-party construction managers.

Training Survey Findings:

- To be determined

Training Curriculum Plan

Construction Site Runoff Control

Permit Year	Target Audience	Topic	Method of Training
1 (FY16)	Department of Planning and Permitting – Building Division Inspectors	Stormwater awareness during construction inspections in the vertical phase of work	On-the-job
1 (FY16)	Department of Design and Construction – Wastewater Division Inspectors	Storm water compliance inspections on public wastewater projects	On-the-job
1 (FY16)	Department of Design and Construction – Facilities/Civil Division Inspectors	Storm water compliance inspections on public facilities/civil projects	On-the-job
1 (FY16)	Department of Transportation Services/Hawaii Authority for Rapid Transit (HART) Inspectors	Storm water compliance inspections on public facilities/civil projects	On-the-job
2 (FY17)	To be determined		
3 (FY18)	To be determined		
4 (FY19)	To be determined		
5 (FY20)	To be determined		

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

Text from the permit has been provided below (in italics) with the corresponding permit reference numbers.

Part D.1.e.(4): “Education and Training (ii) Inspectors. The Permittee shall review and improve its training activities and provide annual training to staff and those contractors under City contract responsible for inspecting permanent post-construction BMPs and LID practices.”

The goals of this program element are to:

- Maintain a training program for staff who are responsible for plan review, inspection and enforcement.
- Provide adequate training on the construction and startup of typical permanent BMPs to inspectors and construction managers.
- Provide plan reviewers with training to effectively evaluate whether new development and redevelopment projects contain adequate permanent BMPs.
- Implement permanent BMPs to help the City minimize water quality impacts to the MEP.

2013 EPA Audit Findings:

- 2.4.2(a) *The City had not provided adequate training for staff responsible for conducting post-construction BMP inspections. (Permit Part D.1.e.(4))*

Part D.1.e.(4) of the Permit requires the City to provide annual training to staff “responsible for inspecting post-construction BMPs and LID practices.” Furthermore, Chapter 5.5 of the City’s SWMP states, “To ensure that post-construction BMPs are being operated and maintenance in accordance with the project’s approved operation and maintenance plan, they are inspected by City staff trained specifically for this task.” Chapter 5.9.2.2 of the City’s SWMP explains that training which “covers installation, operation and maintenance, and inspection considerations for post-construction BMPs” will be available to staff.

A formal training program is imperative for the City to ensure BMPs are installed correctly, inventoried, inspected, and properly maintained. This is of particular importance as the number of post-construction BMPs in the City will increase as the City implements its new Design Standards and requires LID practices. The City must ensure that City staff are provided with formal training to implement the new Drainage Standards. This will likely necessitate cross-training and increased collaboration among City departments (e.g., DPP, DFM, and ENV) to ensure effective planning, implementation, inspection, and maintenance throughout the lifetime of the BMPs.

Training Survey Findings:

- To be determined

Training Curriculum Plan

Post-Construction Storm Water Management in New Development and Redevelopment

Permit Year	Target Audience	Topic	Method of Training
1 (FY16)	Department of Facility Maintenance – Storm Water Quality Branch	Post-construction BMP maintenance inspections	Webinar
2 (FY17)	To be determined		
3 (FY18)	To be determined		
4 (FY19)	To be determined		
5 (FY20)	To be determined		

d. Pollution Prevention/Good Housekeeping

Text from the permit has been provided below (in italics) with the corresponding permit reference numbers.

Part D.1.f.(2): “Chemical Applications BMPs Program Plan (i) Training - The Permittee shall update its Authorized Use List of the chemicals the City uses and continue to implement a specific training program for all potential applicers (bulk and hand-held) of the chemicals (e.g. fertilizers, pesticides, and herbicides) in its proper storage, handling, and application. The Permittee shall not permit the application of

fertilizers, pesticides, or herbicides unless the applier has first received this training.”

Part D.1.f.(4): “ Municipal Maintenance Activities Program Plan (ii) Training. The Permittee shall update, if necessary and continue to provide annual training to staff on proper municipal maintenance activities to prevent storm water pollution. The training shall cover the Field Guide developed under Part D.1.f.(4)(i) and the SWPCP, specific to facility and the staff at the facility.”

The goals of this program element are to:

- Maintain a training program for staff who are responsible for plan review, inspection and enforcement.
- Create a culture of proactive pollution prevention and good housekeeping within municipal maintenance departments.
- Reduce the discharge of pollutants from City-owned facilities, roads, parking lots, municipal waste facilities, and activities conducted, to the MEP.
- Maintain a training program for municipal maintenance staff whose primary construction, operations, or maintenance job functions may impact stormwater quality.

2013 EPA Audit Findings:

- No direct training deficiencies identified for the Pollution Prevention/Good Housekeeping Program Element

Training Survey Findings:

- To be determined

Training Curriculum Plan

Pollution Prevention/Good Housekeeping

Permit Year	Target Audience	Topic	Method of Training
1 (FY16)		Training Survey	
2 (FY17)	To be determined		
3 (FY18)	To be determined		
4 (FY19)	To be determined		
5 (FY20)	To be determined		

e. Industrial and Commercial Activities Discharge Management Program

Text from the permit has been provided below (in italics) with the corresponding permit reference numbers.

Part D.1.g.(7): “Training. The Permittee shall continue to provide annual training to staff on how to conduct industrial and commercial inspections, the types of facilities covered by the General Industrial Storm Water permit coverage or any other applicable NPDES permit, elements in an SWPCP for industrial facilities, BMPs and source control measures for industrial and commercial facilities, and inspection and enforcement techniques. Any updates to the Training shall be discussed in its Annual Reports.”

The goals of this program element are to:

- Maintain a training program for staff who are responsible for inspection and enforcement.
- Provide City inspectors with a better understanding of the requirements of the MS4 NPDES permit and thereby enable them to promote source control measures at industrial and commercial facilities.
- Reduce the discharge of pollutants from industrial and commercial facilities to the MEP.

2013 EPA Audit Findings:

- No direct training deficiencies identified for the Industrial and Commercial Activities Discharge Management Program Element

Training Survey Findings:

- To be determined

Training Curriculum Plan

Industrial and Commercial Activities Discharge Management Program

Permit Year	Target Audience	Topic	Method of Training
1 (FY16)		Training Survey	
2 (FY17)	To be determined		
3 (FY18)	To be determined		
4 (FY19)	To be determined		
5 (FY20)	To be determined		

5. Conclusion

The purpose of this Training Program Plan is to guide and tailor development of the current storm water pollution control training program. The plan will help the City prioritize its efforts for the storm water training program to meet the requirements of the NPDES MS4 permit in a comprehensive, cost effective, and timely manner.

The highest priority of the training is to address the potential permit violations and deficiencies identified in the 2013 Audit. Training on these topics and identified audiences will be planned to be delivered in the first two years of the permit term. The results of the Training Needs Survey will be compiled and analyzed. The findings will be used in conjunction with the 2013 Audit findings to

design the tailored training plan for the permit term. The plan will be shared with the various City departments and divisions to receive their input and concurrence. A calendar for the training program plan will provide brief training descriptions including the topic, target audience, and anticipated delivery method. As part of the Annual Report, the training schedule will be reassessed and refined based on feedback and program effectiveness evaluations (described in the SWMPP Program Effectiveness Assessment Plan) from the reporting year.

It is intended that this Training Program Plan will assist the City in protecting or improving the quality of our waters, for life.

Attachment 1: Training Needs Survey for City and County of Honolulu Employees

Thank you for your time in completing this survey. The City and County of Honolulu is exploring how best to provide our employees with the resources and materials needed for your job most effectively while helping to meet our National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) goals. Your responses will assist us in planning and prioritizing future training sessions that fit your requirements. Thank you for your time and energy to help *protect our waters... for life.*

Name: _____ Email: _____
 Department & Division: _____ Title/Role: _____

1. Name of Section/Group: _____
2. Number of plan reviewers: < 10 10-25 26-50 51 <
3. Number of inspectors: < 10 10-25 26-50 51 <
4. Number of supervisors/managers: < 10 10-25 26-50 51 <

Training Accessibility

1. Which method of training do you feel is the most effective for you?

Method	Not Very Effective	Somewhat Effective	Very Effective
On-Site/Field			
Classroom			
Webinar			
Video			
Web-based self-guided slideshow			

2. Which training duration(s) are preferred for your schedule?

Training Formats	Preferred	Acceptable	Not Acceptable
Regularly emailed presentations – 20-30 minutes			
Infrequent emailed presentations – 45-60 minutes			
Presentations of topics of interest as part of your regularly scheduled meetings			
Workshops – 1-2 hours			
Workshops – 2-4 hours			
Workshops - full day			
Workshops – multiple days w/certification			
A course or series of workshops over several months			

3. What are the preferred times and places for training? (select all that apply)

Period: Jan-Mar Apr-Jun Jul-Sep Oct-Dec
 Day: Monday Tuesday Wednesday Thursday Friday
 Time: Morning Lunch Afternoon
 Distance: Kapolei Hale Mission Memorial Blaisdell Center Base Yard/Facility

Components for a successful stormwater management program

1. The City’s current stormwater training program includes general awareness related to construction activities and municipal maintenance. Training is provided annually via ECATTS, self-guided DVDs, and select live training sessions. What parts of the current stormwater training program are working well (content, frequency, delivery method)?
2. What could be working better, and what are the most significant barriers to a more effective stormwater training program?
3. To assist with the development of training content, please identify your current level of expertise, so that the City can provide you with the knowledge and skills necessary to help comply with the requirements.

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
Overall understanding of the storm water management program					
Detecting and addressing Illicit Discharges and Illegal Connections					
Spill Response Procedures					
Regulatory Issues related to stormwater					
<i>Construction/ temporary best management practices</i>					
Erosion Control					
Sediment Control					
Non-Stormwater Management					
Waste Management and Materials Pollution Control					
<i>Post-Construction/ LID best management practices</i>					
Source Control					
Treatment Control					
Treatment Control Manufactured Devices					
<i>Municipal Maintenance Best Management Practices</i>					
Good Housekeeping					
Materials Storage					
Vehicles/Equipment Maintenance and Fueling					

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
Grounds Maintenance					
MS4 Maintenance					
Chemical Applications					

- Can you describe an instance where you believe that stormwater best management practices have been successfully implemented. Why do you think it worked so well?
- Which stormwater sub-topics related to Regulatory Issues would you most like to be offered in training sessions and what level of instruction is needed to increase your understanding?

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
NPDES Storm water permit requirements, including new requirements					
	NPDES General Permits (GP)				
Appendix B – NPDES GP Authorizing Discharges of Storm Water Associated with Industrial Activities					
Appendix C– NPDES GP Authorizing Discharges of Storm Water Associated with Construction Activities					
Appendix D – NPDES GP Authorizing Discharges of Treated Effluent from Leaking Underground Storage Tank Remedial Activities					
Appendix E – NPDES GP Authorizing Discharges of Once Through Cooling Water Less Than One (1) Million Gallons Per Day					
Appendix F – NPDES GP Authorizing Discharges of Hydrotesting Waters					
Appendix G – NPDES GP Authorizing Discharges Associated with Construction Activity Dewatering					
Appendix H – NPDES GP Authorizing Discharges of Treated Process Wastewater Associated with Petroleum Bulk Stations and Terminals					
Appendix I – NPDES GP Authorizing Discharges of Treated Process Wastewater Associated with Well Drilling Activities					
Appendix J – NPDES GP Authorizing Occasional or Unintentional Discharges from Recycled Water Systems					
Appendix K – NPDES GP Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems					
Appendix L – NPDES GP Authorizing Discharges of Circulation Water					

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
from Decorative Ponds or Tanks					
What is the NPDES GP Authorizing Point Source Discharges from the Application of Pesticides, how does it apply and what do I need to do to comply					
How to comply with technical requirements for operations and maintenance					
Reviewing plans and specifications with BMPs					

6. Are there any other stormwater related training components or topics you would like to see offered as part of the storm water training program that will enable you to help the City to meet the storm water requirements?

7. Do you have any concerns with potential additional training sessions at this time?

8. Would you or your department be willing to pay a fee to hire outside training groups for more advanced or specialized training?

If yes, please select the amount you or your department would be willing to pay per person.

\$5 - \$25 \$26 - \$50 \$51 - \$75 \$76 - \$100 \$101 - \$150 > \$150

Stormwater Awareness

1. How often do you implement what you learned from the current stormwater training on your projects?

- Usually do not consider the training
- Considered but do not usually refer to the training
- Use knowledge gained from training on less than half of my projects
- Use knowledge gained from training for more than half of my projects
- Use knowledge gained from training on all of my projects

2. To what extent do you think the following factors influence the successful implementation of storm water best management practices?

	Not at all Important	Slightly Important	Somewhat Important	Very Important	Extremely Important
Feasibility / Infeasibility of BMP					
Cost of implementation / Construction					
Cost of Maintenance					
Ease of Operation					
Availability of Product					
Safety concerns					
Effectiveness of the controls					
Aesthetics of the controls					
Lack of Training					
Design Standards					
Designer/Engineer/Builder Knowledge					
Liability					
Lack of Management Support					

3. How much do you think implementing Best Management Practices will improve water quality on Oahu?

- Not at all
- A small improvement
- Moderate improvement
- Quite a lot of improvement
- Tremendous improvement

4. In your opinion how important is implementing Best Management Practices for preserving the environment and protecting the ecosystem?
 - Not at all important
 - Slightly important
 - Moderately important
 - Very important
 - Extremely important

5. For the following statement, please indicate how much you agree or disagree. “The value of the surrounding ecosystem is worth the time and effort it takes to protect it by using best management practices”
 - Do Not Agree at All
 - Slightly Agree
 - Moderately Agree
 - Very Much Agree
 - Completely Agree

6. How interested are you in hearing more about stormwater management and new regulations?
 - Not interested at all
 - Slightly interested
 - Moderately interested
 - Very interested
 - Extremely interested

Attachment 2: Training Needs Survey for Private Construction Industry

Thank you for your time in completing this survey. The City and County of Honolulu is exploring how best to provide the construction community with the training needed for your job most effectively while helping to meet our National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) goals. Your responses will assist us in planning and prioritizing future training sessions that fit your requirements. Thank you for your time and energy to help *protect our waters... for life*.

Name:

Email:

Company:

Title/Role:

Training Accessibility

1. Which method of training do you feel is the most effective for you?

Method	Not Very Effective	Somewhat Effective	Very Effective
On-Site/Field			
Classroom			
Webinar			
Video			
Web-based self-guided slideshow			

2. Which training duration(s) are preferred for your schedule?

Training Formats	Preferred	Acceptable	Not Acceptable
Regularly emailed presentations – 20-30 minutes			
Infrequent emailed presentations – 45-60 minutes			
Presentations of topics of interest as part of your regularly scheduled meetings			
Workshops – 1-2 hours			
Workshops – 2-4 hours			
Workshops - full day			
Workshops – multiple days w/certification			
A course or series of workshops over several months			

3. What are the preferred times and places for training? (select all that apply)

Period:	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	
Day:	Monday	Tuesday	Wednesday	Thursday	Friday
Time:	Morning	Lunch	Afternoon		
Distance:	East Honolulu	Downtown	Moanalua	Pearl City	Ewa
	Kapolei	Waianae	Kaneohe	North Shore	

4. Would you be willing to host a training at your construction site? Yes No

Approximately how many people would you allow to be in a group?

Components for a successful stormwater management program

1. To assist with the development of training content, please identify your current level of expertise, so that the City can provide you with the knowledge and skills necessary to help comply with the requirements.

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
Overall understanding of the storm water management program					
Spill Response Procedures					
Regulatory Issues related to stormwater					
<i>Construction/ temporary best management practices</i>					
Erosion Control					
Sediment Control					
Non-Stormwater Management					
Waste Management and Materials Pollution Control					
<i>Post-Construction/ LID best management practices</i>					
Source Control					
Treatment Control					
Treatment Control Manufactured Devices					

2. Can you describe an instance where you believe that stormwater best management practices have been successfully implemented. Why do you think it worked so well?

3. What are the most significant barriers to the stormwater training program?

4. Which stormwater sub-topics related to Regulatory Issues would you most like to be offered in training sessions and what level of instruction is needed to increase your understanding?

Training Topics	Current Level of Expertise				
	None	Beginner	Intermediate	Expert	N/A
NPDES Storm water permit requirements, including new requirements					
<i>NPDES General Permits (GP)</i>					
Appendix B – NPDES GP Authorizing Discharges of Storm Water Associated with Industrial Activities					
Appendix C– NPDES GP Authorizing Discharges of Storm Water Associated with Construction Activities					
Appendix D – NPDES GP Authorizing Discharges of Treated Effluent from Leaking Underground Storage Tank Remedial Activities					
Appendix E – NPDES GP Authorizing Discharges of Once Through Cooling Water Less Than One (1) Million Gallons Per Day					
Appendix F – NPDES GP Authorizing Discharges of Hydrotesting Waters					
Appendix G – NPDES GP Authorizing Discharges Associated with Construction Activity Dewatering					
Appendix H – NPDES GP Authorizing Discharges of Treated Process Wastewater Associated with Petroleum Bulk Stations and Terminals					
Appendix I – NPDES GP Authorizing Discharges of Treated Process Wastewater Associated with Well Drilling Activities					
Appendix J – NPDES GP Authorizing Occasional or Unintentional Discharges from Recycled Water Systems					
Appendix K – NPDES GP Authorizing Discharges of Storm Water and Certain Non-Storm Water Discharges from Small Municipal Separate Storm Sewer Systems					
Appendix L – NPDES GP Authorizing Discharges of Circulation Water from Decorative Ponds or Tanks					
What is the NPDES GP Authorizing Point Source Discharges from the Application of Pesticides, how does it apply and what do I need to do to comply					
How to comply with technical requirements for operations and maintenance					

5. Are there any other stormwater related training components or topics you would like to see offered as part of the storm water training program that will enable you to help the City to meet the storm water requirements?

6. Approximately how many employees from your company would attend the training?

< 10 10-50 51-100 100+

7. Would you or your company be willing to pay a fee to hire outside training groups for more advanced or specialized training?

If yes, please select the amount you or your company would be willing to pay per person.

< \$50 \$51 - \$75 \$76 - \$100 \$101 - \$150 \$150 - \$200 > \$200

Stormwater Awareness

1. How often do you implement what you learned from the current stormwater training on your projects?

- Usually do not consider the training
- Considered but do not usually refer to the training
- Use knowledge gained from training on less than half of my projects
- Use knowledge gained from training for more than half of my projects
- Use knowledge gained from training on all of my projects

2. To what extent do you think the following factors influence the successful implementation of storm water best management practices?

	Not at all Important	Slightly Important	Somewhat Important	Very Important	Extremely Important
Feasibility / Infeasibility of BMP					
Cost of implementation / Construction					
Cost of Maintenance					
Ease of Operation					
Availability of Product					
Safety concerns					
Effectiveness of the controls					
Aesthetics of the controls					
Lack of Training					
Design Standards					
Designer/Engineer/Builder Knowledge					
Liability					
Lack of Management Support					

3. How much do you think implementing Best Management Practices will improve water quality on Oahu?

- Not at all
- A small improvement
- Moderate improvement
- Quite a lot of improvement
- Tremendous improvement

4. In your opinion how important is implementing Best Management Practices for preserving the environment and protecting the ecosystem?
 - Not at all important
 - Slightly important
 - Moderately important
 - Very important
 - Extremely important

5. For the following statement, please indicate how much you agree or disagree. “The value of the surrounding ecosystem is worth the time and effort it takes to protect it by using best management practices”
 - Do Not Agree at All
 - Slightly Agree
 - Moderately Agree
 - Very Much Agree
 - Completely Agree

6. How interested are you in hearing more about stormwater management and new regulations?
 - Not interested at all
 - Slightly interested
 - Moderately interested
 - Very interested
 - Extremely interested