Water Boards' Training Academy
Training Event Proposal: College of Stormwater

Project Title	College of Stormwater Training Plan
Date of Proposal	March XX, 2019
Sponsoring Program	Division of Water Quality and the Stormwater Program Roundtable
Anticipated Work Date	January 2019-January 2023
Lead SB/RB Contact	Brandon Roosenboom, Industrial and Construction Stormwater Unit
Support Contact(s)	Amy Kronson, Industrial and Construction Stormwater Unit Laurel Warddrip, Industrial and Construction Stormwater Unit

Purpose

The purpose of this training plan is to organize and develop staff knowledge and skills required to implement the California Water Board's stormwater programs (Program).

Background

The United States Environmental Protection Agency defines stormwater as the runoff generated when precipitation from rain and snowmelt flows over land or impervious surfaces without percolating into the ground. Stormwater is often considered a nuisance because it mobilizes pollutants such as motor oil and trash. In most cases, storm water flows directly to waterbodies through storm sewer systems, contributing a major source of pollution to rivers, lakes, and the ocean. Stormwater point-source discharges in California are regulated through National Pollutant Discharge Elimination System (NPDES) permits. The Water Boards are actively involved in initiatives to improve the management of stormwater as a resource by safely recharging groundwater with this source water.

In the last 10 years, the statewide stormwater program's regulated community has grown by roughly 50% while 30% of the staff are newer to the Program. The percentage of new hires is projected to increase as current staff promote, leave, or retire. Consequently, the Program needs to provide supportive training to develop newer staff skillsets and continue to offer advanced trainings for seasoned staff. The selected trainings for this College of Stormwater three-year training plan will provide the

necessary training and knowledge to enhance staff's ability to effectively manage increasing caseloads and share the importance of the Program from the perspectives of in-house experts.

One of the key components to implementing the Program is education. Appropriately trained staff are better equipped to recognize stormwater violations, develop a complete administrative enforcement record, and professionally coordinate a proper response to resolve the risk to human health and the environment. The trainings outlined in this plan are primarily intended for Program staff, including enforcement staff, and have the following purposes:

1. Primary Audience: Program staff (including enforcement staff)
   Purpose:
   1) Provide staff with advanced inspection and investigation training;
   2) Educate new staff with adequate technical information and best practices through the Stormwater 101 training video module(s);
   3) Offer industrial stormwater inspectors an opportunity to earn credentials while enriching their professional expertise through the Qualified Industrial Storm Water Practitioner (QISP) Training.

2. Secondary Audience: Water Board staff
   Purpose:
   1) Allow other Water Board staff to learn more about the Programs through the Stormwater 101 training video module(s);

Brief Topic Descriptions:

1. Inspection and Investigation 3-Day Training
   a. Intro to the Enforcement Course
   b. Enforcement Options
   c. Entry, Access, and Warrants
   d. Elements, Evidence, and interactive exercises
   e. Development of the Enforcement Team
   f. Sampling or Basic Interviewing for Inspectors (breakout sessions)
   g. Framing the Case or Inspection Techniques and Report Writing (breakout sessions)
   h. Case Studies
   i. Inspector as a Witness
   j. Presenting Science and Regulations
   k. Settlements

2. Stormwater 101 On-Demand Video Module(s)
   a. Mission of the Stormwater program and role protecting water quality
   b. Overview of the Water Board's organizational structure and culture
      i. Roles

   ii. Ethics
   iii. Structure
   iv. Customer service role of a public agency
c. Federal and State Regulations (Clean Water Act, California Water Code) litigation examples
d. Introduction to the construction, industrial, municipal, and planning stormwater programs
e. Permit writing
f. Implementation of the permits
g. Inspections and Enforcement
h. Relationship between regulations, permits, and policies
i. Overview of the Stormwater Program Roundtable purpose, goals, and structure
j. Develop and maintain rapport with the public and permittees
k. Evaluating program performance and neutrality

3. <u>Qualified Industrial Storm Water Practitioner (QISP) One-Day Training with an Industrial General Permit Trainer of Record (IGP ToR)</u>
   a. Introduction and Background for Order 2014-0057-DWQ (Industrial General Permit, or IGP)
   b. Responsibilities of a QISP (Section IX, Attachment C)
   c. In-class questions on on-line content/common questions
   d. Receiving Waters
   e. How to determine a facility's receiving water (waters of the United States)
   f. Total Maximum Daily Load IGP Amendment
   g. When to apply the tributary rule
   h. Definition of a New Discharger
   i. New Dischargers 303(d) impairment requirements
   j. Existing Dischargers HUC 10 Watershed 303(d) requirements
   k. Water Quality Based Corrective Actions
   l. Storm Water Multiple Application and Report Tracking System (SMARTS)
   m. Exceedance Response Action Process and Examples
   n. Monitoring and Sampling
   o. In-Class IGP ToR Discretionary Time (1 hour), Example Topics:
      i. Comprehensive Storm Water Pollution Prevention Plan (SWPPP) development
      ii. QISP Compliance Evaluation Topics
      iii. SWPPP Review
      iv. Site Evaluation
      v. Source Evaluation
      vi. Minimum Best Management Practices (BMP) Evaluation
      vii. Advanced BMPs
      viii. Additional BMPs
      ix. Monitoring Implementation Plan Review
      x. Industry Specific Content and Key BMPs
      xi. Ocean Plan Requirements
      xii. Compliance Groups

xiii. No Exposure Certification (NEC)
xiv. Plastic Materials
xv. Notice of Non-Applicability (NONA)
xvi. Standard Industrial Classification (SIC) code training (based on Water Board SIC code video)

Training Format:

The following table summarizes the training format for each topics outlined in the above descriptions. Please refer to the 'Special Requirements' column for courses to be hosted through Training Academy, and where funding support may be requested.

Topic	Tentative dates and locations	Frequency, duration, occurrence	# of students	In-person or remote	Special Requirements	Audience
1. Basic Inspector/Investigation Training	Winter 2019 Locations: Sacramento and Riverside or Los Angeles (2 courses)	Annually 3 days	25-30	In-Person	Environmental Enforcement Trainer through the Western States Project ($300 per student).	Program staff
2. Stormwater 101 Video Module	Fall 2020 On-demand via the intranet	N/A	N/A	On-Demand	Training modules with video content/voice-over slides, including interactive learning quizzes.	Water Board staff
3. QISP 7-hour training with an IGP ToR	Fall 2019 Locations: Sacramento and Riverside or Los Angeles (2 courses)	Bi-annually 1 day	15-30	In-Person	Contract with an IGP ToR to offer this 7-hour training to Water Board staff, shift this trainer between years to be fair. Student prerequisite is completion of the online QISP training and midterm.	Program staff

Total Training Days Requesting Academy Funding: 2-4 annually

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Instructor:

Please note, contact information is included for instructors that will likely require funding support for their time and travel.

Instructor	Contact Information	Topic
1. Western States Project Trainers	External: Eunice Sepulveda-Martinez Sepulveda-Martinez.Eunice@azdeq.gov http://regionalassociations.org/	Course introducing government-only regulatory inspectors and attorneys to administrative, civil, and criminal environmental enforcement options, strategies, and processes from the initiation of an inspection to the conclusion of a case.
2. Water Board Stormwater Program staff (Training Academy On-Demand Video)	External: Resources to develop and record the adult-learning modules (e.g. U.C. Davis contract with the Water Board's Academy or a separate contract) Internal: Brandon Roosenboom (DWQ-ICDU) Sahand Rastegarpour (DWQ-STORMS)	General overview of the State Stormwater Programs (Construction, Industrial, Municipal, STORMS Planning). Includes general tips on how to work with others internally, the regulated community, and the public as stormwater program staff.
3. Qualified Industrial Storm Water Practitioner (QISP), IGP ToR (Rotate Instructors)	External: https://www.owp.csus.edu/qisp-lookup.php	One-day in-person training for Water Board staff who have completed the online QISP content and need the IGP ToR-led training to obtain the QISP certificate (also open to staff who want to audit the course).

Please note that the frequency of courses is expected to decline over time as Program staff become more knowledgeable and experienced. With increased knowledge and experience, Program staff can internally instruct on the trainings and investigation techniques (i.e. field interviews, collecting evidence, etc.).

Proposed Budget:

The College of Stormwater Training Plan is a coordinated approach to prioritize education and training to Program staff utilizing existing staff resources and Training Academy supported funding. While some training topics and components that will require Training Academy funding and support, Program staff will primarily conduct and support the following training courses, as identified in the table above:

- 1. 3-day Training in Sacramento and Southern California (Riverside or Los Angeles) (24 hours)
  - Introduction and overview of the general inspection and enforcement process at the Water Boards (15-25 minutes)
- 2. On-Demand Stormwater 101 Video

- Content (slides/script) for the recorded video modules and training quizzes (3-4 hours)

➔ 3. In-Person Qualified Industrial Storm Water Practitioner (QISP) with an IGP Trainer of Record (7 hours)

- State Board industrial staff can assist with question and answers requested by the IGP ToR and/or students.

State Board staff will coordinate funding and course support with the Training Academy and the Stormwater Program Roundtable. Budget information for those courses are included below:

The following budget is approximate (this will be completed with the Training Academy).

Item	
Development Hours (X hours at $80/hour)	
Daily Training Rate (X days at $3700)	
Half Day Training Rate (X at $1850)	
In-House Training Rate (X days a $1300)	
Operating Expenses (Travel, Supplies, Rooms, Etc.)	
Indirect Costs (30%)	
Total Estimate Budget for Series	