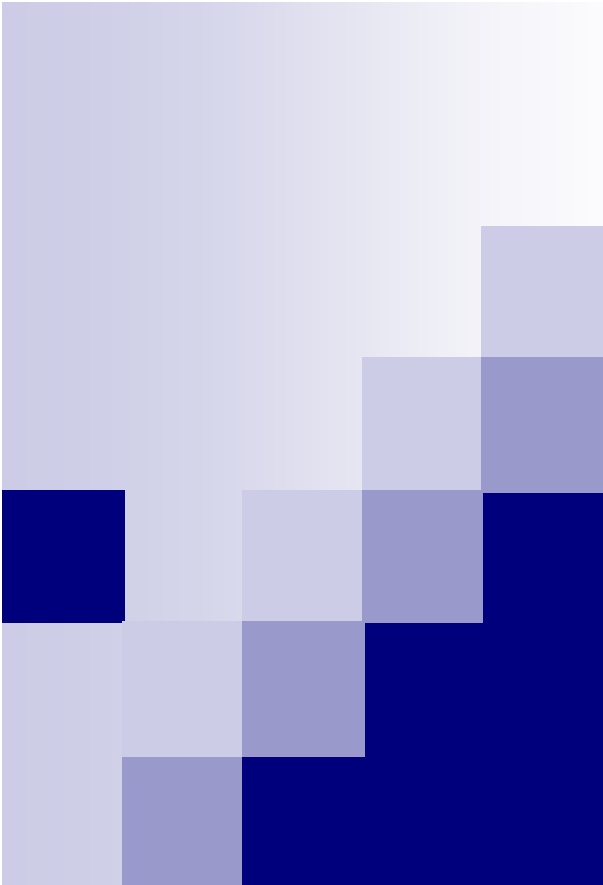




Stormwater Pollution Prevention Plans for Construction Activity “The SWPPP”

Ann Murphy
CWA Compliance Office
EPA Region 9
415-972-3640
murphy.ann@epa.gov



Outline

- Stormwater Runoff - what is the harm?
- Pollution Prevention
- Stormwater Pollution Prevention Plans
 - ❖ Creating this valuable tool
- Have it onsite:
 - ❖ The SWPPP and other documents



Outline

- Stormwater Runoff - what is the harm?
- Pollution Prevention
- Stormwater Pollution Prevention Plans
 - ❖ Creating this valuable tool
- Have it onsite:
 - ❖ The SWPPP and other documents



What is the Environmental Harm from Construction Site Runoff?

- Sediment
- Suffocates fish
- Changes stream flow:
causes flooding and erosion
- Carries other pollutants:
 - Oil/grease
 - Concrete – high pH
 - Stucco – variety of chemicals



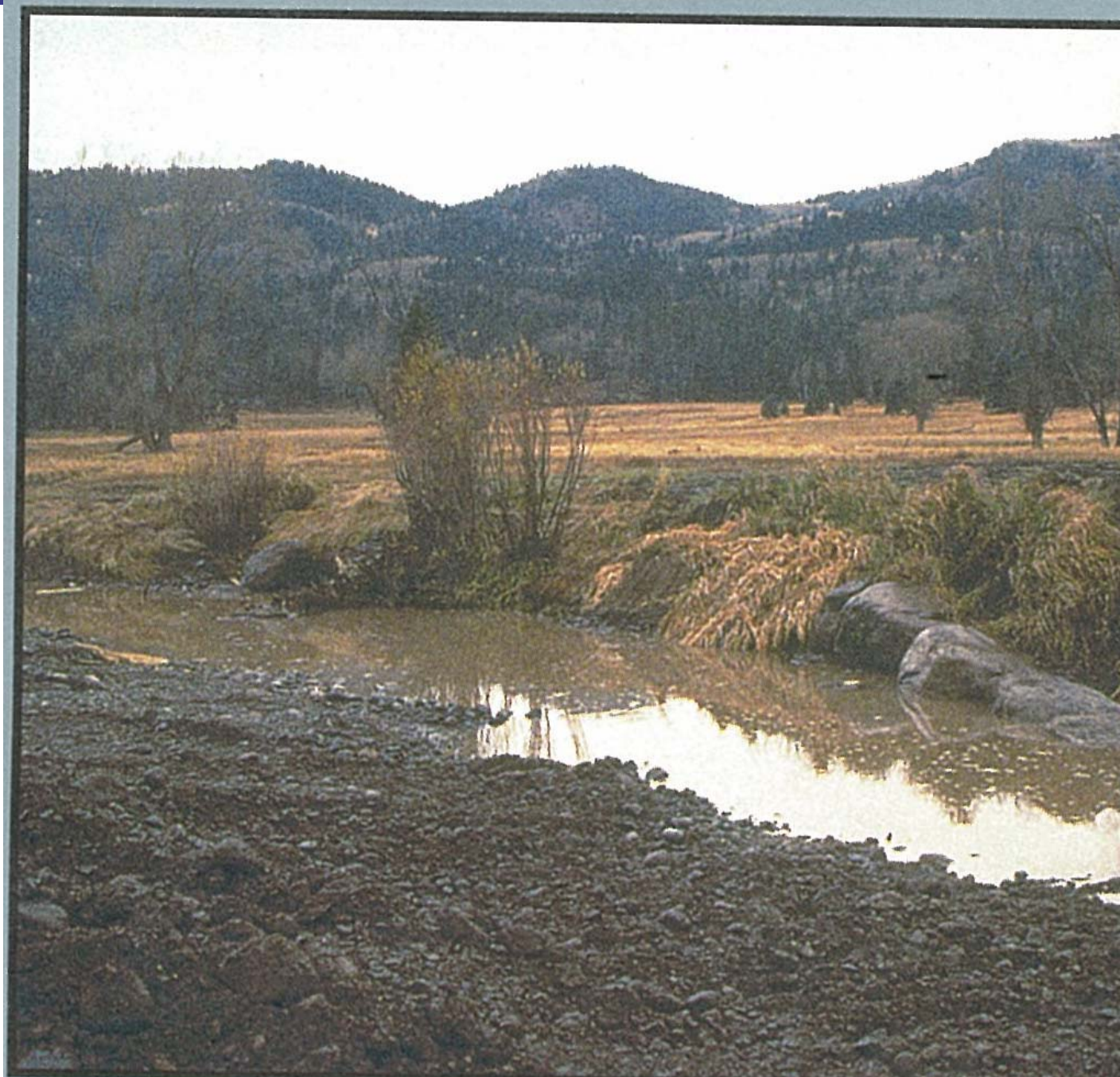
Outline

- Stormwater Runoff - what is the harm?
- Pollution Prevention
- Stormwater Pollution Prevention Plans
 - ❖ Creating this valuable tool
- Have it onsite:
 - ❖ The SWPPP and other documents



What Does Pollution Prevention Accomplish?

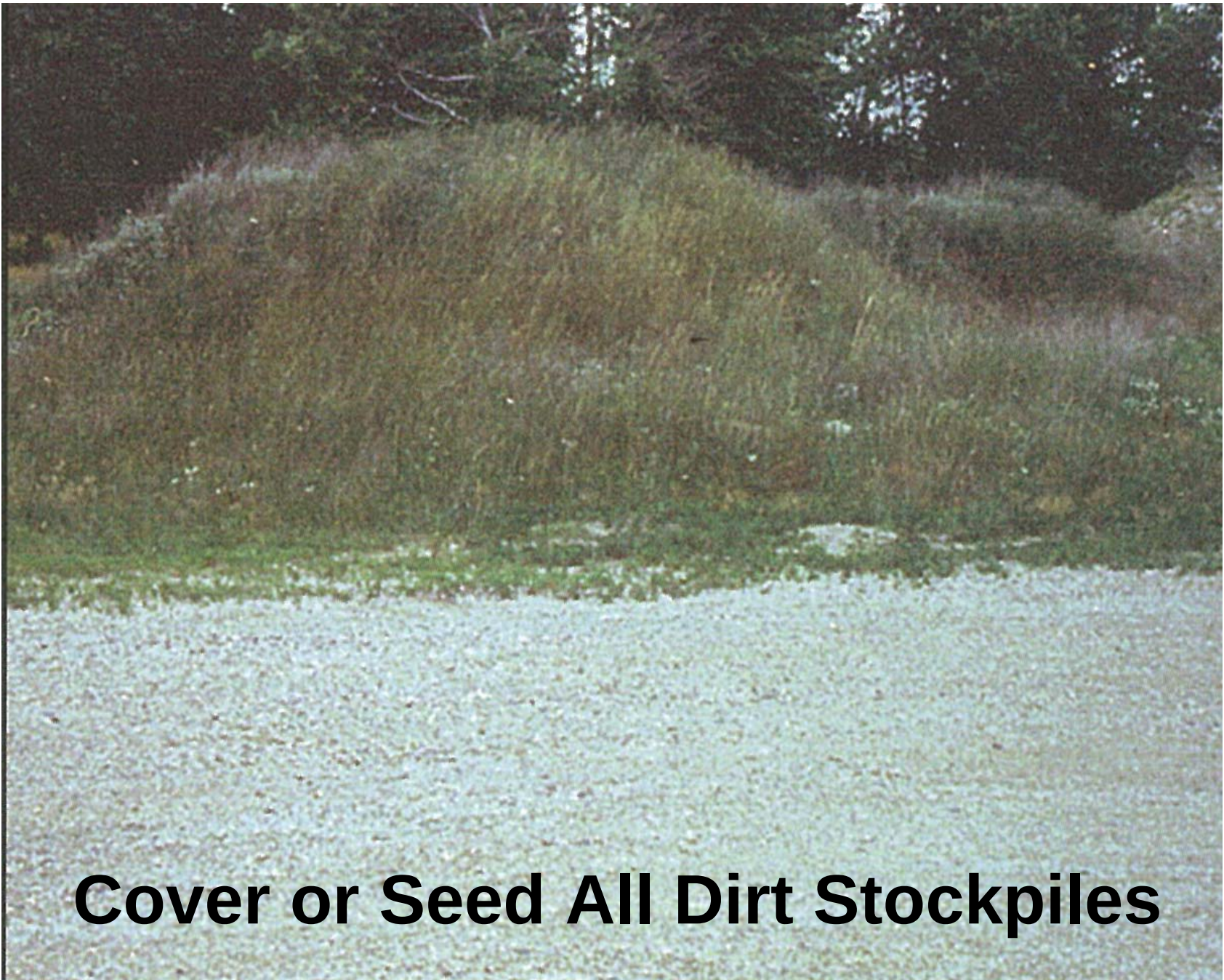
- Prevents impacts to water quality.
- Enhances the effectiveness of Tribal environmental offices when working with planning departments, and public works.
- Helps focus on effective BMPs for sediment control.



Vegetative Buffers







Cover or Seed All Dirt Stockpiles





**Remove mud and dirt on vehicle tires
before they enter the roadway.
Properly size construction entrances.**



Construction on Tribal Land and Adjacent Properties

- Casinos
- Housing
- Infrastructure
- Road projects



Outline

- Stormwater Runoff - what is the harm?
- Pollution Prevention
- Stormwater Pollution Prevention Plans
 - ❖ Using this valuable tool
 - ❖ Who is responsible for the SWPPP
- Have it onsite:
 - ❖ The SWPPP and other documents



How is the SWPPP used?

- As a planning tool.
- The SWPPP demonstrates how a site will comply with the requirements in NPDES stormwater permits.
- A changing document, the SWPPP reflects what is happening on the site.



Pull a permit, create and use a SWPPP

- More than 1 acre disturbed.
- Less than 1 acre (part of a common plan of development) disturbed.
- Projects on Tribal lands need to apply to EPA for coverage under the Construction General Permit (NPDES).
- Projects on state lands need to apply to appropriate state agency.



What does a SWPPP do?

- Identifies potential sources of stormwater pollution.
- Describes Best Management Practices (BMPs) to reduce pollutants and the volume of stormwater discharges.
- Identifies the BMPs operator(s) will implement.
- Describes each major phase of construction.
- Outlines the roles and responsibilities of contractors and subcontractors.
- Evaluate BMP effectiveness
 - The SWPPP documents your inspections.
 - BMPs will change as the project proceeds.



Who develops the SWPPP?

- If there is more than one operator on your project, consider coordinating development of your SWPPP with the other operators.
- The SWPPP should be signed and certified by all construction operators.



Elements of a SWPPP

- Construction company information
- Site map
- Potential pollutants
- Identify receiving waters
- Best Management Practices for managing stormwater.
- Monitoring – inspections, sampling, spill reports.
- Employee training log



Developing Your Stormwater Pollution Prevention Plan

- www.epa.gov/npdes/swpppguide
- The EPA SWPPP Guide is a Word document.
- Assess the site.
- Select appropriate BMPs.
- Select appropriate Good Housekeeping BMPs.
- Document Compliance: Inspections, Maintenance, and Recordkeeping

Stormwater Pollution Prevention Plan

for:

Insert Project Name
Insert Project Site Location/Address
Insert City, State, Zip Code
Insert Project Site Telephone Number (if applicable)

Operator(s):

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Fax/Email

SWPPP Contact(s):

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Fax/Email

SWPPP Preparation Date:

____/____/____

Estimated Project Dates:

Project Start Date: ____/____/____
Project Completion Date: ____/____/____

Contents

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING	1
SECTION 2: EROSION AND SEDIMENT CONTROL BMPs	10
SECTION 3: GOOD HOUSEKEEPING BMPs	18
SECTION 4: SELECTING POST-CONSTRUCTION BMPs	24
SECTION 5: INSPECTIONS	25
SECTION 6: RECORDKEEPING AND TRAINING	27
SECTION 7: FINAL STABILIZATION	29
SECTION 8: CERTIFICATION AND NOTIFICATION	30
SWPPP APPENDICES	31
Appendix A – General Location Map	
Appendix B – Site Maps	
Appendix C – Construction General Permit	
Appendix D – NOI and Acknowledgement Letter from EPA/State	
Appendix E – Inspection Reports	
Appendix F – Corrective Action Log (or in Part 5.3)	
Appendix G – SWPPP Amendment Log (or in Part 6.2)	
Appendix H – Subcontractor Certifications/Agreements	
Appendix I – Grading and Stabilization Activities Log (or in Part 6.1)	
Appendix J – Training Log	
Appendix K – Delegation of Authority	
Appendix L – Additional Information (i.e., Endangered Species and Historic Preservation Documentation)	

Contents

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING	1
1.1 Project/Site Information	1
1.2 Contact Information for Responsible Parties	2
1.3 Nature and Sequence of Construction Activity	3
1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns	4
1.5 Construction Site Estimates	4
1.6 Receiving Waters	5
1.7 Site Features and Sensitive Areas to be Protected	5
1.8 Potential Sources of Pollution	6
1.9 Endangered Species Certification	7
1.10 Historic Preservation	7
1.11 Applicable Federal, Tribal, State or Local Programs	8
1.12 Maps	8
SECTION 2: EROSION AND SEDIMENT CONTROL BMPs	9
2.1 Minimize Disturbed Area and Protect Natural Features and Soil	10
2.2 Phase Construction Activity	10
2.3 Control Stormwater Flowing onto and through the Project	11
2.4 Stabilize Soils	11
2.5 Protect Slopes	12
2.6 Protect Storm Drain Inlets	13
2.7 Establish Perimeter Controls and Sediment Barriers	13
2.8 Retain Sediment On-Site	14
2.9 Establish Stabilized Construction Exits	15
2.10 Additional BMPs	16
SECTION 3: GOOD HOUSEKEEPING BMPs	17
3.1 Material Handling and Waste Management	17
3.2 Establish Proper Building Material Staging Areas	18
3.3 Designate Washout Areas	18
3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices	19
3.5 Control Equipment/Vehicle Washing	20
3.6 Spill Prevention and Control Plan	20
3.7 Any Additional BMPs	21
3.8 Allowable Non-Stormwater Discharge Management	22
SECTION 4: SELECTING POST-CONSTRUCTION BMPs	23
SECTION 5: INSPECTIONS	24
5.1 Inspections	24
5.2 Delegation of Authority	25
5.3 Corrective Action Log	25
SECTION 6: RECORDKEEPING AND TRAINING	26
6.1 Recordkeeping	26
6.2 Log of Changes to the SWPPP	26
6.3 Training	27
SECTION 7: FINAL STABILIZATION	28

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Instructions:

- In this section, you can gather some basic site information that will be helpful to you later when you file for permit coverage.
- For more information, see *Developing Your Stormwater Pollution Prevention Plan: A SWPPP Guide for Construction Sites* (also known as the SWPPP Guide), Chapter 2.
- Detailed information on determining your site's latitude and longitude can be found at www.epa.gov/npdes/stormwaterinfo.

Project/Site Name: _____

Project Street/Location: _____

City: _____ State: _____ ZIP Code: _____

County or Similar Subdivision: _____

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:	Longitude:
1. ____° ____' ____" N (degrees, minutes, seconds)	1. ____° ____' ____" W (degrees, minutes, seconds)
2. ____° ____' ____" N (degrees, minutes, decimal)	2. ____° ____' ____" W (degrees, minutes, decimal)
3. ____° ____' ____" N (decimal)	3. ____° ____' ____" W (decimal)

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale: _____) ☐ EPA Web site ☐ GPS
☐ Other (please specify): _____

Is the project located in Indian country? ☐ Yes ☐ No
 If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." _____

Is this project considered a federal facility? ☐ Yes ☐ No

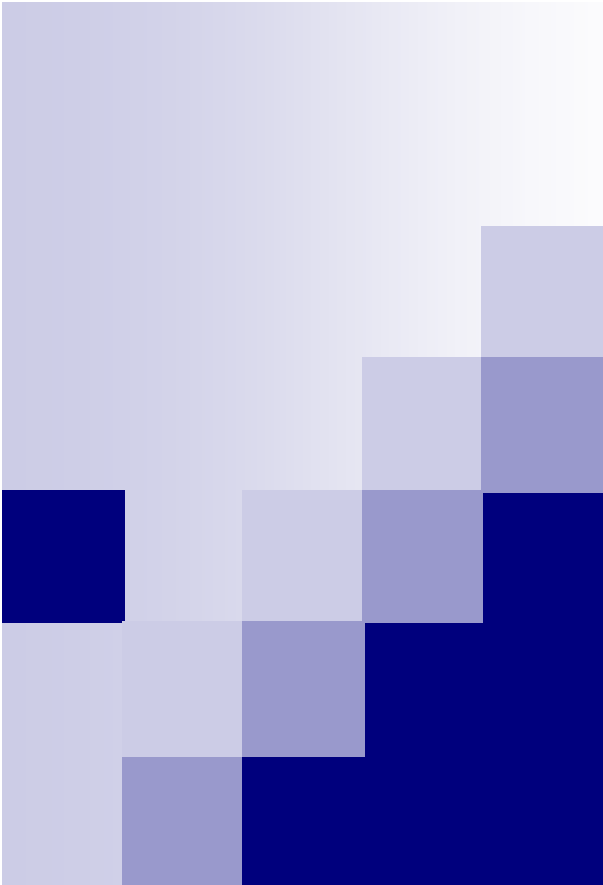
NPDES project or permit tracking number*: _____

**This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.*



In Addition to a SWPPP, These Records Must Be Onsite

- Dates of grading, construction activity, and stabilization.
- The Site Map.
- Inspection logs (date, findings, corrections).
- A copy of the construction general permit.
- The signed and certified NOI.
- Records relating to endangered species and historic preservation.



Stormwater Pollution Prevention Plans for Construction Activity “The SWPPP”

Ann Murphy
CWA Compliance Office
EPA Region 9
415-972-3640
murphy.ann@epa.gov