Stormwater Pollution Control Plan (SWPCP)

What Is It?

www.westlakeconsultants.com
15115 SW Sequoia Parkway, Suite 150 Tigard, Oregon 97224
Presenter: Bernard R. Smith, PE PLS bsmith@westlakeconsultants.com

Westlake
CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

A SWPCP is a stormwater management plan that contains detailed information regarding:

1. The specific industrial site.
2. Your assessment of potential stormwater pollution sources.
3. Selection of best management practices (BMPs) that will be implemented on-site to address stormwater pollution and meet the technology-based requirements in the permit.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Step One in Developing a SWPCP:

- Gain a thorough understanding of the activities conducted and equipment located at your facility.

  This allows you to be able to identify potential pollutant discharge concerns.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Step One:

- Conduct a detailed walk-through.
- Identify industrial materials or material-handling activities exposed to stormwater.
- Identify direction of stormwater flows.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Information Requested For A SWPCP Falls Into Three Areas:

1. Description of the site & activities.
2. Discussion of BMPs to be implemented.
3. Description of procedures, & schedules for preventative measures & response.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

1. Description of the Site & Activities:

A description of the permitted site and the ongoing industrial activities, including the identification of the potential pollutants that may be present in stormwater runoff such as sediments, oil and grease, and metals.

- ***Site description and operations activities (what do you do here?)***

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

2. Discussion of BMPs to be Implemented:

A discussion of the BMPs that will be implemented on the site to prevent stormwater and mine dewatering pollution and meet the technology based requirements in the permit.

- ***How will you keep stormwater safe?***

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

3. Description of Procedures & Schedules for Preventative Measures & Response:

A description of the procedures and schedules for conducting required spill prevention and response, preventative maintenance and employee education. This guidance document outlines and suggests ways to prepare the SWPCP and to present the required information.

- ***Spill prevention, preventative maintenance, education.***

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Who Should Prepare & Implement the SWPCP?

- Someone knowledgeable in stormwater management.
- Someone familiar with the facility.
- Plant manager, environmental manager, facility engineer, consultant.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Who Should Sign?

- *"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*
- **See Permit Reference A7.c (corporation, partnership, sole-proprietor).**

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Where Should the SWPCP Be Kept?

- It must be kept at the facility.
- Keep the last 3 years of revisions.
- Required to keep it up-to-date to reflect all changes.
- Update the SWPCP within 30-days of a change or revision.
- Changes include:
  - A new industrial process.
  - Discovery of a new hazardous material.
  - Re-routing of stormwater to a different outfall.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Do I Need to Submit a Revised SWPCP Each Time I Change It?

NO: You Are Only Required to Submit a Revised Version If You:

- Change the site contact.
- Make changes based on corrective action or inspection.
- Change the monitoring or outfall locations.
- Significantly change site or control measures which affect the stormwater discharge (nature of pollutants, levels, frequency, volume, flow rate).
- Submit revised changes within 30-days.

REMEMBER: The SWPCP is a Living Document.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Elements of a SWPCP -- What to Include:

Title Page:

- Site name
- Legal name
- Name, telephone & email of operator & owner
- Name of the person preparing the SWPCP
- DEQ file number
- Facility contact person
- Physical address of site
- Date of the SWPCP

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Elements of a SWPCP -- What to Include:

Site Description:

- General location map
- Site-specific map
- Description of the mining process (material, method, hazardous materials)
- Potential pollutants
- Description of BMPs to be used
- Surface area stripped of vegetation contributing to drainage
- Surface area disturbed
- Name of receiving waters
- Identification of discharge outfalls & monitoring points
- Period of expected use

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Elements of a SWPCP -- What to Include:

Site Specific Map:

- Should show detailed information of site activity & drainage flows
- Permit boundaries
- Property boundary
- Buildings
- Operations & processing areas
- Stormwater control structures (spill kits, catch basins, O/W separator)

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Specific Components of the Site Map

- Identify drainage structures for each basin area
- Outline of drainage area (watershed)
- Paved areas
- Significant materials such as raw materials, fuels, solvents, etc.
- Operating equipment areas (screening, crushing, scrubbing, batch plants)
- Structural controls (catch basins, swales, ponds)
- Material loading areas, roadway access points
- Hazardous & waste storage locations
- Surface waters
- Non-stormwater discharges
- Sampling points
- Spill prevention locations (spill kits)

Westlake CONSULTANTS

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

General Description of Mining & Processing

- Introductory paragraph, include history of past, present & future expansion
- Significant materials & the quantities
- Potential impact to stormwater
- Type of external building materials
- Paving materials – asphalt, gravel,
- Site topography

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Identify Potential Pollutants

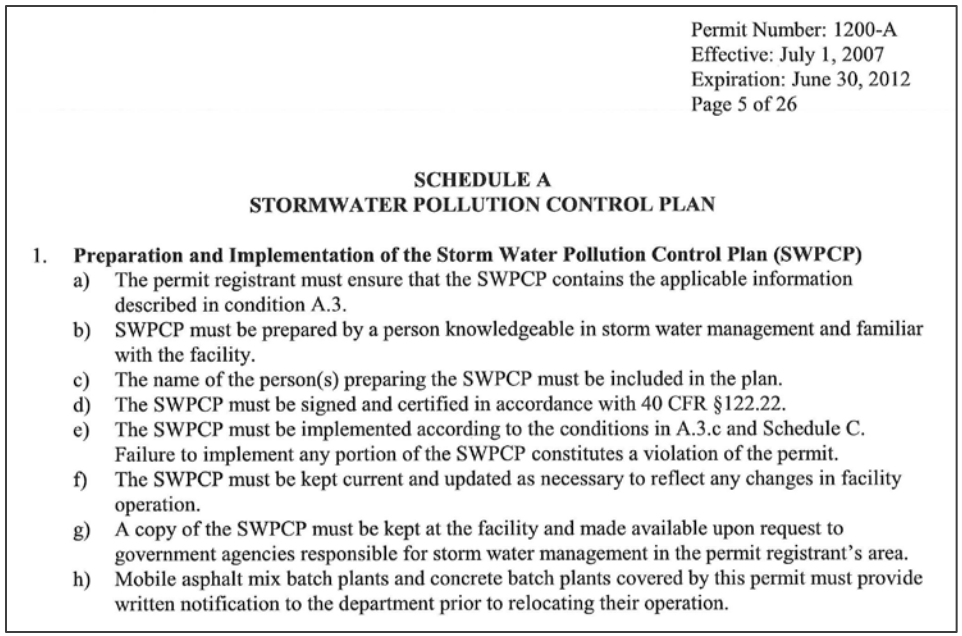
- List solid or liquid materials – concrete & asphalt additives
- Oils, greases, fuels, hazardous wastes
- Sediment & naturally occurring metals
- Legacy pesticides
- Nitrates
- Metals from manufacturing or truck copper, zinc, lead

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Stormwater BMPs

- **See Schedule A DEQ Permit**



Permit Number: 1200-A
Effective: July 1, 2007
Expiration: June 30, 2012
Page 5 of 26

SCHEDULE A
STORMWATER POLLUTION CONTROL PLAN

1. **Preparation and Implementation of the Storm Water Pollution Control Plan (SWPCP)**
   a) The permit registrant must ensure that the SWPCP contains the applicable information described in condition A.3.
   b) SWPCP must be prepared by a person knowledgeable in storm water management and familiar with the facility.
   c) The name of the person(s) preparing the SWPCP must be included in the plan.
   d) The SWPCP must be signed and certified in accordance with 40 CFR §122.22.
   e) The SWPCP must be implemented according to the conditions in A.3.c and Schedule C. Failure to implement any portion of the SWPCP constitutes a violation of the permit.
   f) The SWPCP must be kept current and updated as necessary to reflect any changes in facility operation.
   g) A copy of the SWPCP must be kept at the facility and made available upon request to government agencies responsible for storm water management in the permit registrant's area.
   h) Mobile asphalt mix batch plants and concrete batch plants covered by this permit must provide written notification to the department prior to relocating their operation.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Estimated Area to be Stripped & Proportions of Impervious Areas

- Use a 5-year timeline
- Use an outline of the drainage basin or watershed to estimate area
- Impervious area (roof, paved) should be in square feet

Westlake CONSULTANTS

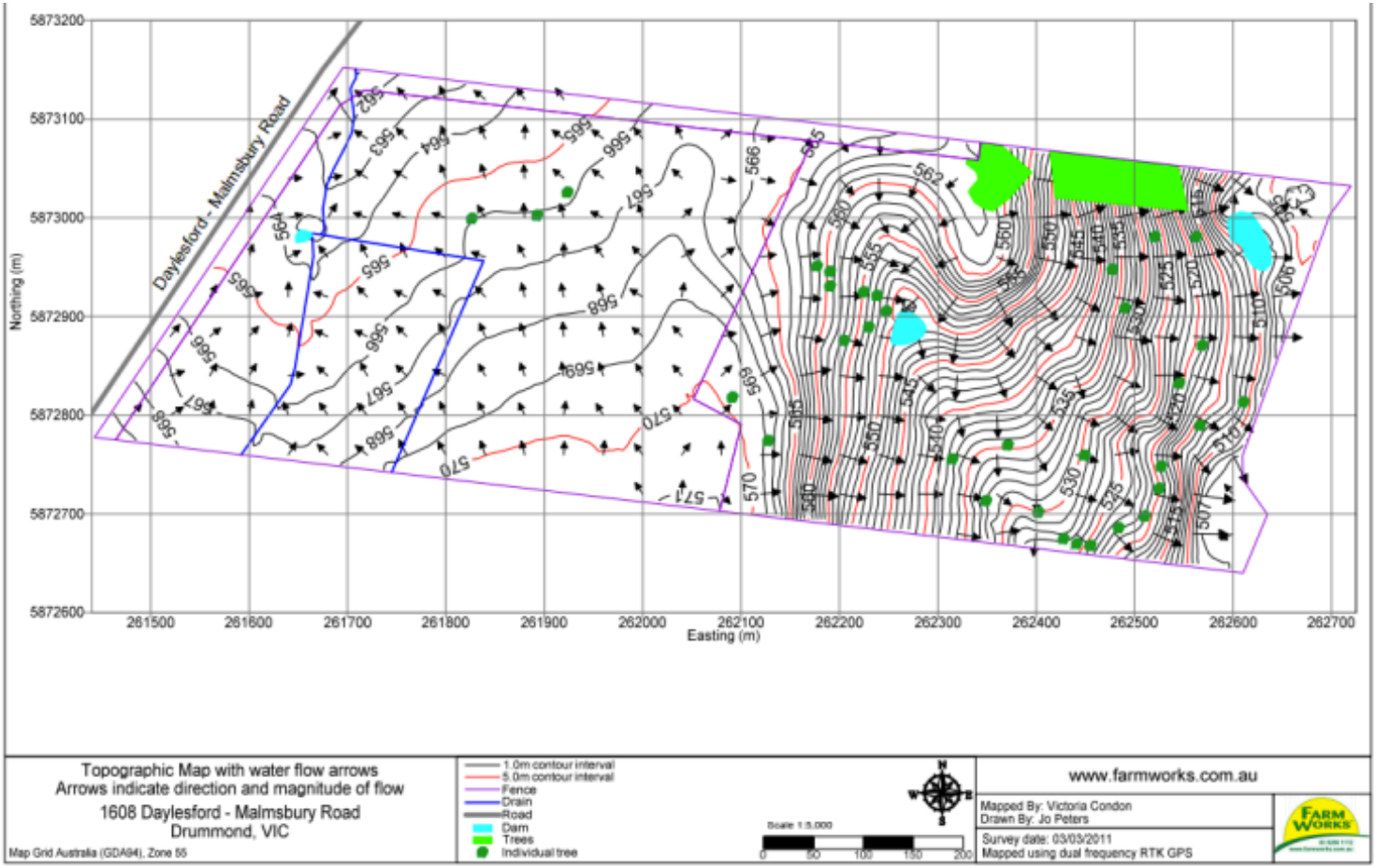
What Is A Stormwater Pollution Control Plan (SWPCP)?

Receiving Body of Water

- May be a lake, stream, river, wetland –it may not be adjacent to your facility.
- Drainage may enter a water body indirectly –through a ditch to a municipal system (MS4).
- The receiving water body is the first natural waterbody the stormwater enters.
- Use maps & topographic information to predict drainage patterns.
- Describe how stormwater & mine dewatering discharges from the site.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?



Predicted Drainage Pattern

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Monitoring Discharge Points or Outfalls

- Identify, list & describe the discharge points or outfalls.
- Number the outfalls if there are more than one.
- Describe the location of sampling points and justify why they are not at each outfall (if this is the case).

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Period of Use

- Describe how long the site is expected to be use.
- Describe extended periods of non-use & actions to keep site secure.

Westlake CONSULTANTS

What Is A Stormwater Pollution Control Plan (SWPCP)?

Operations and Maintenance Plan for Chemical Treatment

- Include an operations &maintenance plan for chemical treatment].
- List chemicals used, MSDS sheets.
- Include a schematic of the operation & a location.
- Show how it disperses the discharge.
- Describe residues, storage & a sampling plan for the presence of chemical treatment additives.
- The discharge must be treated in a detention or containment pond/structure.

Westlake CONSULTANTS

Thank you for the opportunity to be here today!

Presenter: Bernard R. Smith PE PLS

bsmith@westlakeconsultants.com

www.westlakeconsultants.com

Westlake CONSULTANTS