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Stormwater Management Plan Review Course



Ground Rules

- Keep cell phones off during the training
- Questions and comments are encouraged
- Everyone will have an opportunity to speak and share their thoughts at the appropriate times
- Be supportive of all participants



Course Objectives

Regulatory requirements for VSMP Plan Reviewers

- VSMP Plan Reviewer's Role
- Construction GP (and termination)
- Post-construction
- Part IIB Technical criteria

VRRM and compliance spreadsheet

- ESD
- Water Quality compliance
- Links to Water Quantity
- Other compliance tools?

Critical elements and Common errors

- BMP specifications
- Water Quality design
- Water Quantity design

References/Resources

Plan Reviews

SWM Plan Review Participant Guide

**SWM Laws,
Regs, Ordinance, Guidance**

1999 SWM HB

Draft SWM HB

VRRM Documentation

VRRM (CWP) Technical Memo

Other?

Exams

**SWM Plan Review
Participant Guide**

SWM Law & Regulations

**Certification Law &
Regulations**



Course Agenda - Day 1

- 8:30 – 8:45 **Module 1** – Course Overview
- 8:45 – 9:15 **Module 2** – Administrative Requirements and Contents of a Plan
- 9:15 – 9:45 **Module 3** – Stormwater Engineering Concepts
- 9:45 – 10:15 **Module 4** – Runoff Reduction Method
- 10:15 – 10:30 **Break**
- 10:30 – Noon **Module 4 (continued)** – Runoff Reduction Method
- Noon – 1:00 **Lunch (on your own)**



Course Agenda - Day 1

- 1:00 – 1:45 *Exercise 1 – Runoff Reduction Method*
- 1:45 – 2:45 **Module 5 – Energy Balance**
- 2:45 – 3:00 **Break**
- 3:00 – 3:45 *Exercise 2 – Energy Balance*
- 3:45 – 4:15 **Module 6 – P2 Plan/SWPPP Overview**
- 4:15 – 4:30 **Q&A**



Course Agenda – Day 2

- 8:30 – 10:15 **Module 7** – Overview of 15 Non-Proprietary BMPs
- 10:15 – 10:30 **Break**
- 10:30 – 11:00 *Exercise 3 – BMP Sizing*
- 11:00 – 11:30 **Module 8** – Evaluating Water Quality Compliance
- 11:30 – Noon *Exercise 4 – Water Quality Compliance*



Course Agenda – Day 2

- 1:00 – 2:00 **Module 9 – Evaluating Water Quantity Compliance**
- 2:00 – 3:00 *Exercise 5 – Example Site Plan Review*
- 3:00 – 3:15 **Break**
- 3:15 – 3:45 **Module 10 – Final Acceptance**
- 3:45 – 4:30 **Wrap-up/Q&A/Additional Resources**



Updates from OTS

- Exams Available:
 - Program administrator exams \$78
 - Inspector exams \$78
 - Plan reviewer exams \$94
 - Combined administrator \$105

www.deq.virginia.gov/connectwithdeq/ trainingcertification.aspx

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Training & Certification

Provisional Certification

Individuals seeking Stormwater Management or Erosion & Sediment Control certification are considered provisionally certified if they are enrolled in a DEQ training class and complete training within 12 months. To become fully certified, people must obtain a passing score on a certification exam within 12 months of completing the required training. (9VAC25-850-50 A 2)

Course Enrollment Procedure

Individuals wishing to complete a DEQ training class in Erosion & Sediment Control or Stormwater Management can enroll in a class through the [Knowledge Center \(KC\)](#). In order to use the KC you must *first* create a user profile.

KC Instructions

Please see "how to create your KC profile" instructions below in pdf format. Note: any company that wishes to enroll workers on their behalf can also do

Featured Items

- Training Notification Sign-up
- SWM & ESC Law and Regs
- Certification Exam Information
- Work Experience Form
- Certification Search Tool
- Frequently Asked Questions
- Additional Learning Resources

Stormwater Management

- SWM Training Information
- SWM Basic Materials
- SWM Guidance
- Construction Gen'l Permit
- Local VSMP Program
- MS4 Permit Program
- Stormwater Mgmt & VEEP

Technical Links

www.deq.virginia.gov/ConnectWithDEQ/TrainingCertification/ExamInformation.aspx


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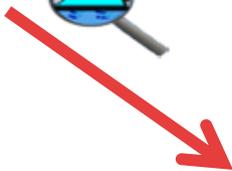
Virginia Department of Environmental Quality

P.O. Box 1105
Richmond, VA 23218

Contact Us:

1-(804) 698-4000
1-800-592-5482 (Toll Free in VA)

View Department of Environmental Quality Expenses



Examination Information

DEQ has enlisted the services of a professional examination company called [Pearson Vue](#) to manage exams for Virginia's Erosion & Sediment Control and Stormwater Management programs.

All information on the exam is outlined in the [Candidate Information Booklet \(CIB\)](#).

Before Taking Your Exam

- Carefully read the [Candidate Information Booklet \(CIB\)](#) located on [Pearson's exam website](#)
- Bring copies of your Training Completion Certificate(s).
- Only bring allowable material, as identified in the Candidate Information Booklet (CIB).
- Place all allowable exam materials in a 3 ring binder (note: use no more than three binders).
- Prepare for your exam by studying the allowable materials as outlined in the CIB.

[Take me to Pearson Exam Website](#)

Printing Training Completion Certificates

If you attended training through DEQ you can print completion certificates from the Knowledge Center, as follows:

1. Login to the [Knowledge Center](#)
2. Click on "My Workspace" / "My Transcript"
3. Click "SWM or ESC Course Name"
4. Click "View Certificate" (this will open a pdf file that you can print).

Home > Test Taker Services > VA Dept of Environmental Quality

VA Dept of Environmental Quality Certification Testing

This page contains specific exam information about the Department of Environmental Quality's Erosion and Sediment Control and Stormwater Management certification programs. From this page you can locate a test center, schedule your examination, and download the candidate information booklet and exam information/forms.



Examination Scheduling Information

Please **VERIFY** that your name and personal information are **CORRECT**. Contact Pearson VUE immediately to correct the spelling of your name or update your personal information if you notice any errors. It is very important that this information is correct, as it will appear as it was entered on the documentation provided to you after you have completed the exam, as well as on any reports to your licensing agency.

Appointments may be made up to one calendar day prior to the day you wish to test, subject to availability. Pearson VUE offers the following scheduling options:

[Schedule Online](#) [Schedule By Phone](#)

Downloads

- [Candidate Information Booklet](#) (1.6 MB pdf)
The Candidate Booklet is the most comprehensive resource for prospective licensees.
- [Content Outlines](#) (76 KB pdf)
- [ESL Accommodation Request Form](#) (46 KB pdf)

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Updates from OTS - Exam

- Please study!
- Review Candidate Information Booklet
 - What to bring
 - What not to bring
 - Candidate identification
 - [Exam content outlines](#)

Allowed

- Three 3-ring binders
- Reference materials
- Dividers (any type)
- Sticky tabs (any type)
- Handwritten notes on reference materials
- Handwritten notes on dividers
- Handwritten headings on sticky tabs
- Highlighted reference materials
- Typed table of contents/index (Created by candidate)

NOT Allowed

- Loose paper
- Handwritten notes on separate paper
- Typed notes
- Practice quizzes
- PowerPoint slides





Recertification



- 4 recertification options:
 1. Retake and pass exam before expiration
 2. Retake DEQ course(s) during last 12 months of certificate term
 3. Maintain professional license and pay recertification fee
 4. Complete continuing professional education hours anytime during 3 years



Continuing Professional Ed. Hours

- **Program Administrator**
 - 12 contact hours (2 days training)
- **Inspector**
 - 18 contact hours (3 days training)
- **Plan Reviewer**
 - 21 contact hours (3 1/2 days of training)
- **Combined Administrator**
 - 24 contact hours (4 days of training)



“Provisional” Certification

- You have two years to complete training courses and pass exam
- Provisionally certified during the 2 years





Module 1

Course Overview



Module 1 Content

1a. Overview of VSMP

1b. Purpose of Plan Review

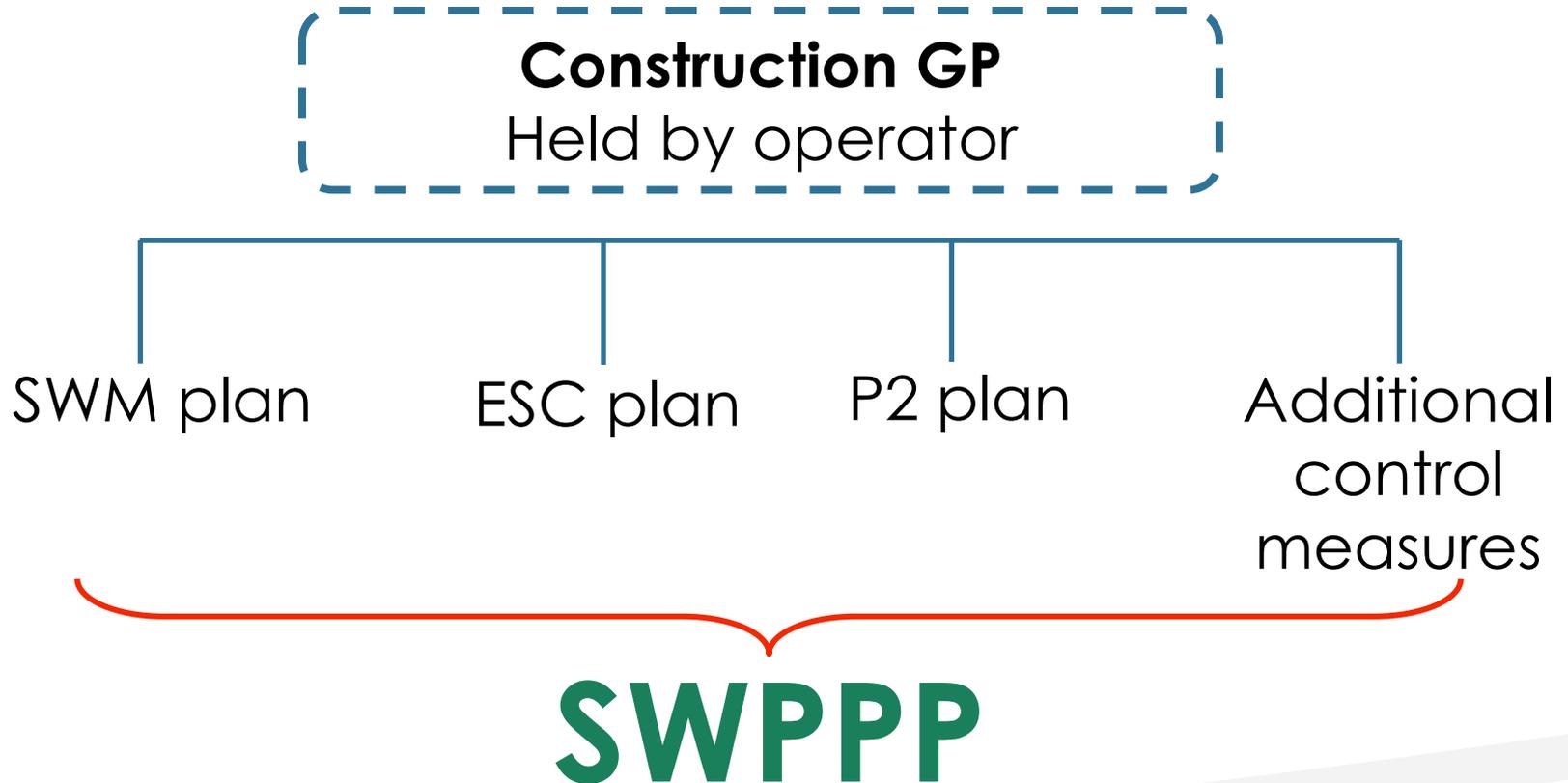
1c. Plan Review Documentation

Overview of VSMP



Stormwater

Overview of VSMP



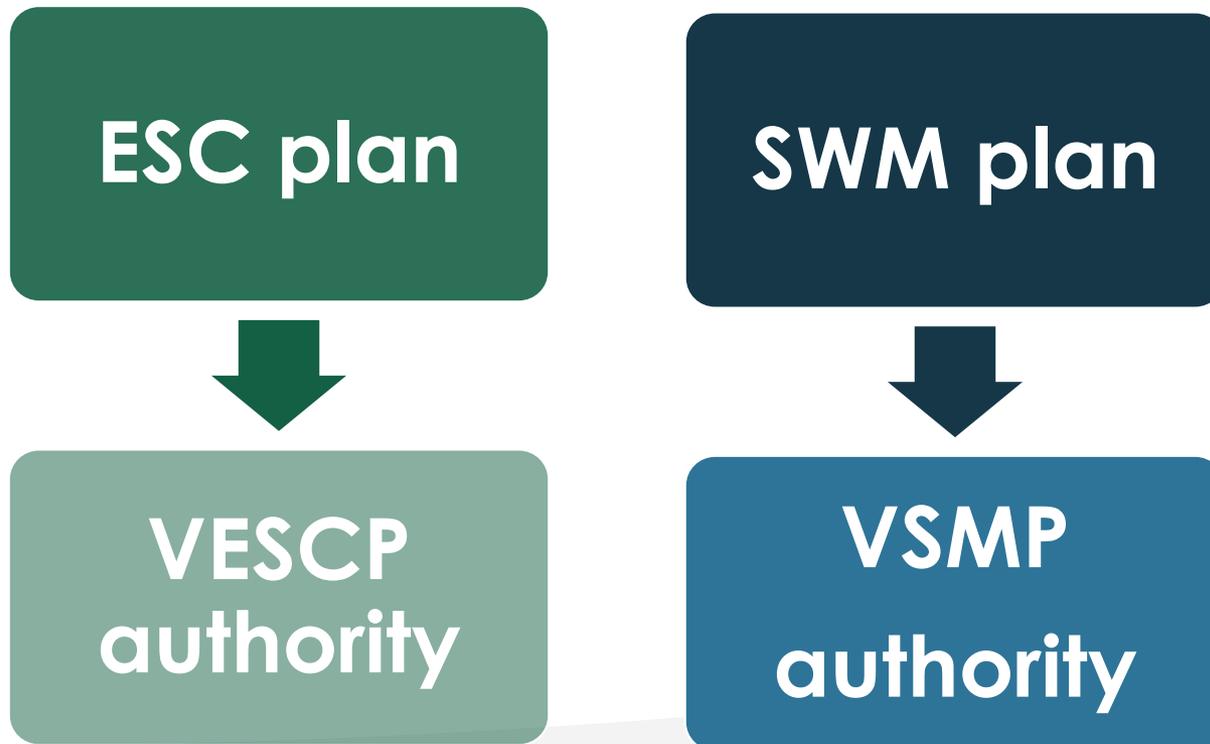


1a. Overview of VSMP

- Construction GP
 - LDA \geq 1 acre; or
 - LDA < 1 acre and part of a **larger common plan of development or sale** disturbing > 1 acre

1a. Overview of VSMP

- Construction GP application requirements



1a. Overview of VSMP

- Construction GP application requirements



ESC plan



SWM plan

Application components:

Registration statement

Long-term maintenance agreement

Fees



1a. Overview of VSMP

- Local VSMP authority can adopt an ordinance that requires projects < 1 acre to hold a VSMP authority permit

1a. Overview of VSMP

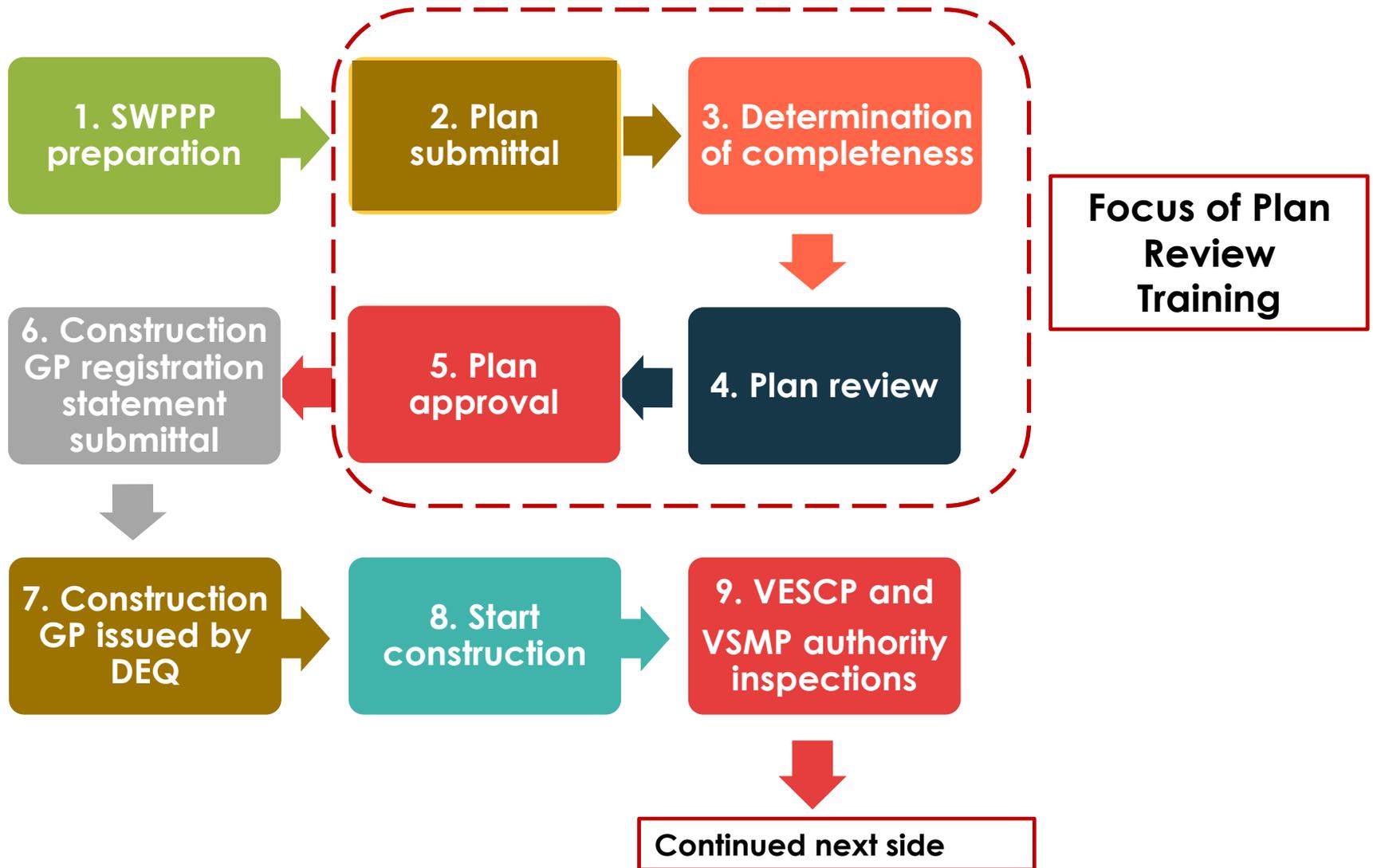
- CBPA LDA

ESC plan ✓

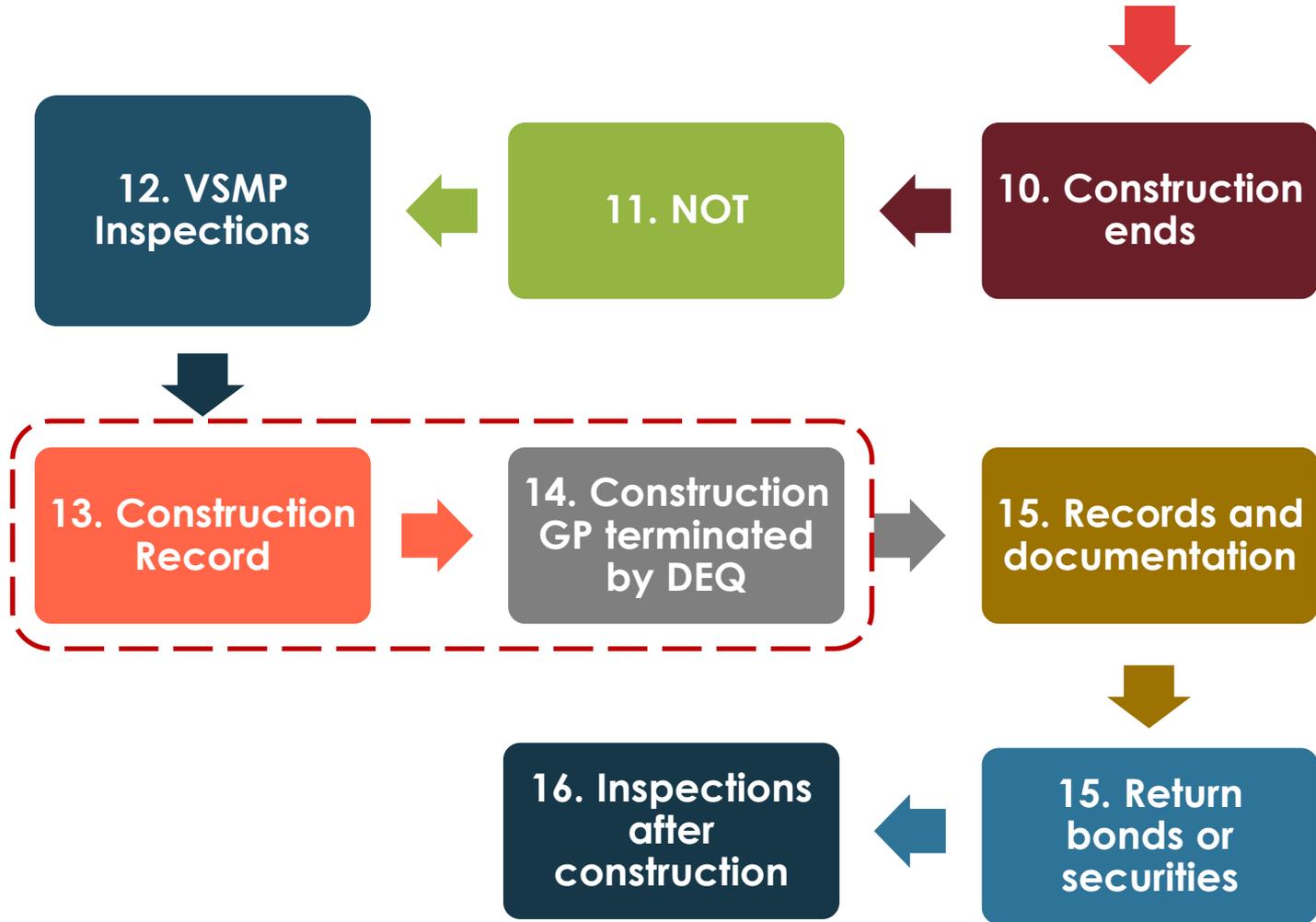
SWM plan ✓

Additional control measures ✓
Long-term maintenance agreement

1a. Overview of VSMP



1a. Overview of VSMP





1b. Purpose of Plan Review

- SWM plan review important for ensuring compliance with:
 - SWM Act and VSMP Regulations
 - Construction GP
 - Local ordinances

Plan Review Certification

	<p>Certified Plan Reviewer for ESC</p>	<p>Certified Plan Reviewer for SWM</p>
<p>Certificate of competence:</p>	<p>Plan Review in ESC</p>	<p>Plan Review in SWM</p>
<p>Who else can qualify as a certified plan reviewer?</p>	<p>P.E., architect, landscape architect, land surveyor or professional soil scientist</p>	<p>N/A</p>
<p>Who must be certified?</p>	<p>Employee or agent of VESC</p>	<p>Employee or agent of VSMP</p>



1b. Purpose of Plan Review

- VSMP Regulations **do not** require VSMP approval of:
 - Pollution prevention plan
 - Additional control measures to address TMDLs
 - Construction record drawings



1c. Documentation

- Reports and record keeping:
 - Project records must be kept **3 years** after permit termination or project completion
 - Construction record drawings must be kept **in perpetuity** or until the stormwater management **facility is removed**

Questions & Discussion

