

Lead Entity



Partners



Other participants

Ecology Pollution Prevention Assistance (PPA) program, Business Inspection Group (BIG), Technical Advisory Committee (TAC), interview participants, and case study volunteers.

*Collectively
improving
stormwater
management*

Stormwater Action Monitoring (SAM) is a collaborative, regional stormwater monitoring program that is funded by more than 90 Western Washington cities and counties, the ports of Seattle and Tacoma, and the Washington State Department of Transportation.

SAM's goal is to improve stormwater management by measuring stormwater impacts on the environment and evaluating the effectiveness of stormwater management actions.

Highlights

- A new Source Control Inspection Program Guidance Manual was developed specifically to aid Phase II MS4 permittees implement new or revised programs.
- Free on-line training is available to help train municipal and business staff.

Stormwater Source Control Needed for Businesses



Figure 1: source control training at business

Ecology's 2019 Phase II Municipal Separate Storm Sewer (MS4) National Pollutant Discharge Elimination System permit (permit) required for the first time these permittees to develop and implement a source control business/site inspection program. A few Phase I and Phase II jurisdictions with existing business inspection programs offered to share lessons learned.

Study goals

1. Develop a Source Control Inspection Program Guidance Manual that provides resources, templates, and strategies that permittees can use to achieve compliance with the 2019-2024 NPDES Phase II permit requirements for the Source Control Program for Existing Development (S5.C.8).
2. Provide in-person trainings on Business/Site Source Control Inspection as well as program development for municipal stormwater staff throughout Washington.
3. Provide an online training for use after the in-person trainings were complete.
4. Provide education and outreach materials for business source control inspectors.

Project findings

The [Washington Stormwater Center website](#) hosts the completed Source Control Inspection Program Guidance Manual and online training that were developed for this SAM project. The **Source Control Inspection Program Guidance Manual** includes:

- Chapter 1: project background and regulatory requirements.
- Chapter 2: developing code/ordinances and enforcement policies.
- Chapter 3: source control inventory development, updates, and prioritization.
- Chapter 4: developing a business/site inspection program.
- Chapter 5: conducting business/site inspections.
- Chapter 6: data management and recordkeeping.
- Chapter 7: education and outreach materials.
- Chapter 8: training staff and online module.

Some of the novel and innovative content includes an example inspection form (Survey123 format) in Chapter 5, business letter templates (Word format) in Chapter 4, and flyers and half sheets for automotive businesses, restaurants, and secondary containment (PDF and InDesign format) in Chapter 7. Materials developed for this project for Chapters 4, 5, and 7 are also provided in Spanish, Traditional Chinese, and Vietnamese.

The resources, templates, and strategies included in the Source Control Inspection Program Guidance Manual and trainings were developed based on research, input, and experiences of jurisdictions that have developed and implemented similar inspection programs.

More than 210 people, majority were municipal staff, were trained on developing and implementing a Source Control Inspection Program. The training included an overview of the Source Control Inspection Program Guidance Manual, detailed information on developing and implementing an inspection program, two interactive group activities, and recorded case studies provided by other permittees in the region.



Figure 2: Business Inspection and Source Control Program Training 2023

Recommendations

Municipal stormwater staff and managers are encouraged to explore this new resource to support their NPDES programs. The Source Control Inspection Program Guidance Manual and associated training resources are available online at no cost, providing access to municipal stormwater staff and other stormwater professionals in the region.

Why does this study matter?

The Source Control Inspection Program Guidance Manual and the expanded education and outreach materials developed for this project will help to reduce stormwater pollution and support municipal staff responsible for NPDES program implementation.

What should stormwater managers do with this information?

Permittees and stormwater managers should consider this new resource and training for developing and implementing their source control inspection programs. The education and outreach materials can be provided to local businesses. Municipal business source control inspectors are encouraged to become familiar with the new manual and consider taking the free online training.

What will Ecology do with this information?

Ecology continues to support efforts to develop resources, templates, and strategies for source control inspection programs. This new resource will be added to the MS4 permit webpages to help spread the word and share the Source Control Inspection Program Guidance Manual and training materials. Ecology's Pollution Prevention Assistance (PPA) program will include these materials with their resources for specialists and partners and will incorporate applicable parts of this guide into their training materials.

For more information see the completed project at ecology.wa.gov/SAM Source Identification Projects or contact the study lead: Laurie Larson-Pugh laurie.larson-pugh@wsu.edu.