Implementation of a SWPPP Manual & Plan for Contractors

- Site Inspections & BMP Maintenance Requirements
SWPPP Manual & Plan

- SWPPP Manuals are the instructions for BMPs
- SWPPP Site Plans show where the BMPs will be used onsite.
Part IV.H. Inspections

- The Arizona Pollution Discharge Elimination System (AZPDES) Construction General Permit (AZG2008-001), Part IV.H. requires that the operator shall provide “qualified personnel” to perform inspections according to the selected inspection schedule identified in the SWPPP.
Part IV.H.1 Inspection Schedule

- Routine Inspection Schedule
  - The site will be inspected a minimum of once every 7 calendar days, OR
  - The site will be inspected a minimum of once every 14 calendar days, and also within 24 hours of the end of each rain event of 0.5 inches or greater.
  - *Note: The Department encourages adding inspections before and/or during predicted rain events and “spot” inspections to ensure BMPs will be effective in managing stormwater runoff and associated pollutants.*
Part IV.H.1 Inspection Schedule

• Reduced Inspection Schedule
  – The operator may reduce inspection if the entire site has been temporarily stabilized; or runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists).
  – The site shall be inspected at least once every 28 calendar days, and before an anticipated rain event and within 24 hours of the end of each rain event of 0.5 inches or greater in 24 hours.
Part IV.H.1 Inspection Schedule

- Inspection Schedule for Sites within ¼ mile of Impaired or Unique Waters (Outstanding Arizona Waters – OAWs)
  - If any discharge point from the construction site is within ¼ mile of a unique or impaired water, the operator shall inspect the site at least once every 7 calendar days.
  - The operator shall visually observe stormwater discharges at all discharge locations within one business day after each rain event of 0.5 inches or greater in 24 hours.
Part IV.H.1 Inspection Schedule

- If an inspection day (except those required relative to a rainfall event) falls on a Saturday or holiday, the inspection may be conducted on the preceding workday. If the inspection day falls on a Sunday, the inspection may be conducted on the following Monday.
Part IV.H.2 Qualified Personnel

• “Qualified personnel” means a person (or personnel) knowledgeable in the principles and practice of erosion and sediment control BMPs, and who possesses the skills and abilities to assess conditions at the site that could impact stormwater quality and the effectiveness of the BMPs selected to control the quality of the stormwater discharges.

• The inspector(s) name, title and a description of his/her qualifications and a copy of his/her training certificate, if any, shall be included in the SWPPP before construction begins.

• Inspector information shall be updated whenever a new inspector is brought onto the project.
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – i. Good housekeeping BMPS;
  • Solid Waste Storage & Pickup
  • Chemical Storage, Use, & Spill Cleanup Procedures
  • Onsite Fuel Storage & Containment
  • Vehicle Fueling & Maintenance Activities
  • POV Parking Areas
  • Sanitary Waste & Portable Job Toilets
  • Non-Chemical Materials Storage
Part IV.H.3 Scope of Inspections

- Solid Waste Storage & Pickup
Part IV.H.3 Scope of Inspections

- Chemical Storage, Use, & Spill Cleanup Procedures
Part IV.H.3 Scope of Inspections

- Onsite Fuel Storage & Containment
Part IV.H.3 Scope of Inspections

- Vehicle Fueling & Maintenance Activities
Part IV.H.3 Scope of Inspections

- POV Parking Areas
Part IV.H.3 Scope of Inspections

- Sanitary Waste & Portable Job Toilets
Part IV.H.3 Scope of Inspections

- Non-Chemical Materials Storage
Part IV.H.3 Scope of Inspections

a. At a minimum, the inspector shall examine each of the following during each inspection:
   
   – ii. All erosion and sediment control BMPs identified in the SWPPP to ensure they are in place and functioning as intended;
   
   • Silt Fence
   • Fiber Rolls
   • Soil Stabilization
   • Erosion Control Blankets
   • Filter Fabric & Inlet Protection
Part IV.H.3 Scope of Inspections

- Silt Fence
Part IV.H.3 Scope of Inspections

- Fiber Rolls
Part IV.H.3 Scope of Inspections

- Soil Stabilization
Part IV.H.3 Scope of Inspections

- Erosion Control Blankets
Part IV.H.3 Scope of Inspections

- Filter Fabric & Inlet Protection
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – iii. All areas of the site disturbed by construction activity and areas used for storage of materials that are exposed to precipitation;
    • Disturbed Soil Stabilization
    • Concrete Washout
    • Perimeter Control
    • Debris Piles
    • Materials Stockpiles
Part IV.H.3 Scope of Inspections

- Disturbed Soil Stabilization
Part IV.H.3 Scope of Inspections

- Concrete Washout
Part IV.H.3 Scope of Inspections

- Perimeter Control
Part IV.H.3 Scope of Inspections

- Debris Piles
Part IV.H.3 Scope of Inspections

- Materials Stockpiles
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – iv. Locations where vehicles and equipment enter or exit the site for evidence of tracking sediment, debris, and other pollutants onto and off the site;
    • Track-out Gravel Pad
    • Grizzly / Shaker Rack
    • Street Sweepers
Part IV.H.3 Scope of Inspections

- Track-out Gravel Pad
Part IV.H.3 Scope of Inspections

- Grizzly / Shaker Rack
Part IV.H.3 Scope of Inspections

- Street Sweepers
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – v. Site conditions for evidence of, or the potential for, pollutants entering the Municipal Separate Storm Sewer (MS4);
    • Perimeter Control
    • Off-Site Sediment
    • Track Out Prevention
Part IV.H.3 Scope of Inspections

- Perimeter Control
Part IV.H.3 Scope of Inspections

- Off-Site Sediment
Part IV.H.3 Scope of Inspections

- Track Out Prevention
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – vi. Accessible discharge locations or discharge points to ascertain whether erosion and sediment control BMPs are effective in preventing significant impacts to receiving waters;
  • On-Site Storm Water Structures
  • Boundaries with Existing Improvements
Part IV.H.3 Scope of Inspections

- On-Site Storm Water Structures
Part IV.H.3 Scope of Inspections

- Boundaries with Existing Improvements
Part IV.H.3 Scope of Inspections

• a. At a minimum, the inspector shall examine each of the following during each inspection:
  – vii. Where discharge locations are inaccessible, nearby downstream locations to the extent that the inspections are practicable;
  • Off-Site Storm Water Structures
  • Flood Control Channels
  • Retention Basins
Part IV.H.3 Scope of Inspections

- Off-Site Storm Water Structures
Part IV.H.3 Scope of Inspections

- Flood Control Channels
Part IV.H.3 Scope of Inspections

- Retention Basins
Part IV.H.3 Scope of Inspections

b. The inspector shall document all areas inspected, the presence and effectiveness of BMPs, and the conditions found at the time of inspection.
Part IV.H.3 Scope of Inspections

• c. All nonfunctional and underperforming BMPs shall be repaired, replaced, or supplemented with functional BMPs, as specified in Part IV.I.2.

  – Corrective Actions

  • Conditions requiring BMP maintenance typically are not violations. Depends on the circumstances.
  • Take corrective action as quickly as possible, usually within 24 hours of discovery.
  • Failure to take corrective action is a violation.
  • Document corrective actions and modify SWPPP Manual and SWPPP Site Plan as necessary.
Upcoming FREE BMP Webinar

• Sponsored by Storm Water Solutions / Stormwater USA
• BMP Maintenance: Don’t Get Caught With Your Fence Down!
• Tuesday, June 21st, 2011 at 11:00 AM PST (Arizona Time)
• This one-hour webinar will educate participants on the proper evaluation, maintenance and documentation of critical BMPs.
• BMPs Addressed will be:
  - Ponds
  - Silt fence
  - Inlet protection
  - Construction exits
• For more information, contact Harry Urban at hurban@sgcmail.com or 847.954.7928
• Register today at: www.estormwater.com/bmp
Questions or Comments?

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