

Overview

Maintaining an Updated SWPPP

Site Map

Required Elements

Good Examples Bad Examples

Inspections

Inspection Frequencies

Inspection Techniques

Inspection of Control Measures

Good Examples

Bad Examples

Updates vs. Amendments

Modifications vs. Corrective Action

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Maintaining and Updated SWPPP

- Updating the document for current conditions:
 - Text
 - Design
 - Schedule
 - Change in Operator/Operations
 - Site Maps

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Text

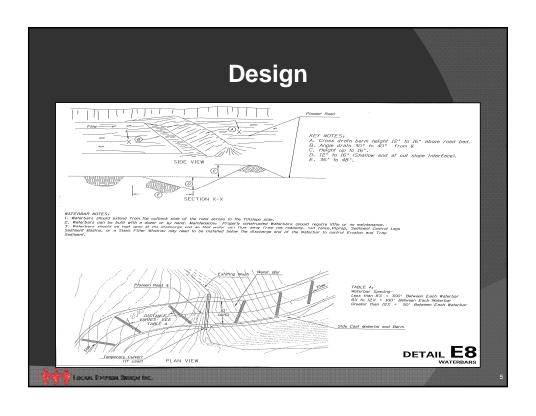
emergency procedures, inspection reports and the SWPPP documents are up-to-date and available at the project

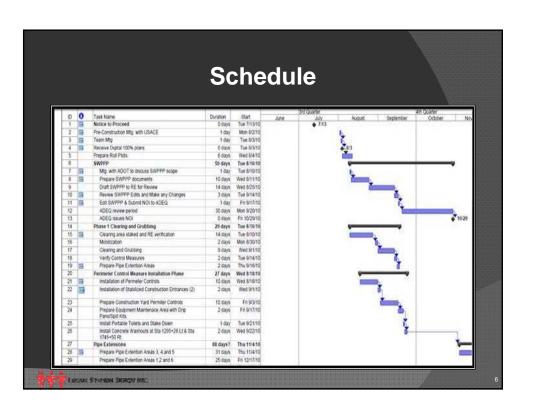
Eourteen day Monthly inspections will be performed to ensure that good housekeeping and BMPs remain effective. Inspections will confirm that the Operator is maintaining BMPs to a functional level at or greater than intended functional operating limits. Based on the inspection results the Operator shall revise the SWPPP as necessary to achieve stormwater control requirements. The reduced inspection frequency of this site is based on the fact that no further construction activity will resume on this site and it is located in a semi-arid area (Part

The Project Inspector will update this SWPPP as required and be capable of identifying existing and predictable effects of the activities of construction personnel and equipment (including subcontractors) as required to correctly implement measures to minimize or eliminate contamination to downstream drainage resources. The Project Inspector will be familiar with SWPPP measures that will be employed on the project and will ensure that emergency procedures, inspection reports and the SWPPP documents are up-to-date and available at the project

All control measures, including BMPs and good housekeeping practices, will be inspected at least once every 44 calendar days month and within 24 hours of the end of each storm event greater than 0.25 inches.

Requirements of Inspections (Part 4.1.6)
Erosion and sediment controls are to be installed in accordance with the sequencing provisions in this SWPPP and/or coordinated with related construction activities as required to meet stormwater control requirements. BMPs





Contact Information/Responsible Parties (Part 1.1) Owner/Operator Owner: Logan Simpson Design Inc. New Guy Principal Address: 51 West Third Street, Suite 450 Tempe, AZ 85281 Telephone: (480) 967-1343 E-Mail Address: agray/@logansimpson.com Responsibilities: Supervise day-to-day operations pertaining to the SRP Pinal West to Pinal Central Data Recovery Project) Signature: See Form on Page 18 Owner: Logan Simpson Design Inc. Harrier: Address: 51-West Third Street, Suite 450 Tempe, Arizona \$5283 Telephone: (480) 967-1343 E-Mail Address: 51-West Third Street, Suite 450 Tempe, Arizona \$5283 Telephone: (480) 967-1343 E-Mail Address: upprvise and direct all activities pertaining to EL Caliche Archaeological Data Recovery Project Signature: See page 17

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Site Map Required Elements The CGP lists 10 major elements, most with subsets: Topography of the site, existing types of cover (e.g., forest, pasture, pavement, structures), and drainage pattern(s) before and after major grading activities; Drainage divides and direction of stormwater flow for all drainage areas located within the project;

Site Map Areas of soil disturbance and areas that will not be disturbed. Boundaries of the property and of the locations where construction activities will occur, including locations: Where construction and phasing of activities will occur Where stockpiles will be located Any crossings of surface waters Where vehicles will exit onto paved roads Construction support activity areas Bedicated to your project



Site Map

- Locations of on-site material, waste, borrow areas, or equipment storage areas, and other supporting activities
- Locations of all potential pollutant-generating activities (I.e. fueling and maintenance operations; concrete, paint, and stucco washout



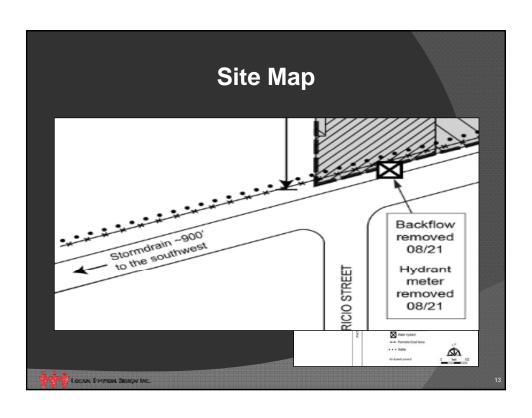
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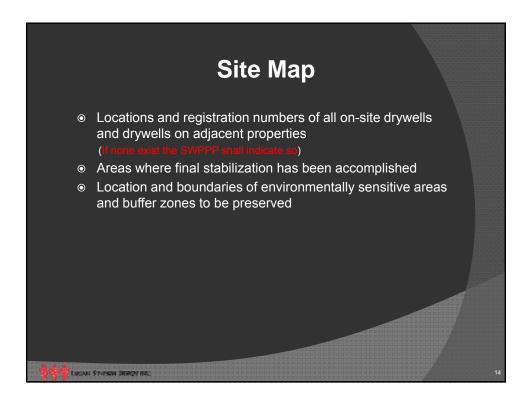
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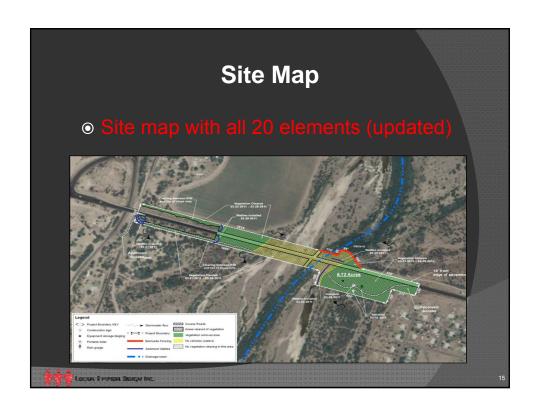
Site Map

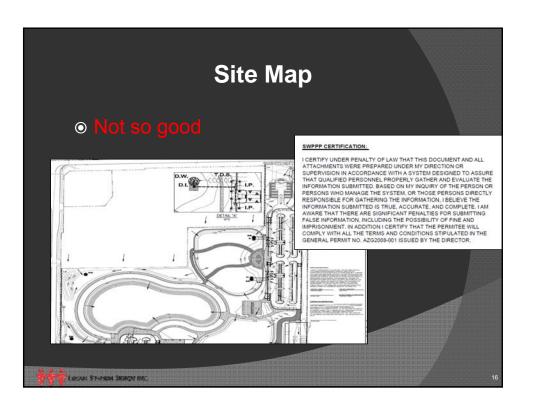
- Locations of all surface waters and any impaired waters or OAWs within 1/4 mile of the facility. If none exist on site, the SWPPP has to make this statement
- Stormwater discharge location(s), using arrows to indicate discharge direction. Including:
 - Discharges to waters of the U.S. or to an municipal separate storm sewer systems (MS4s)

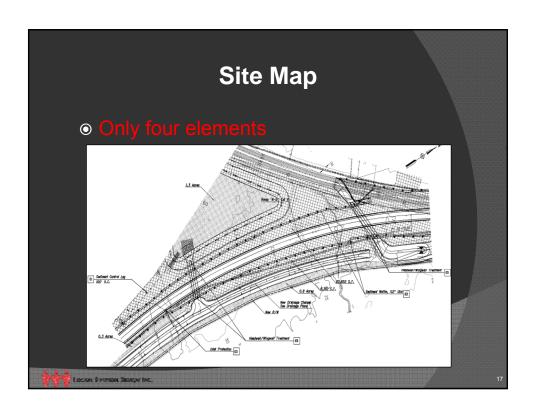
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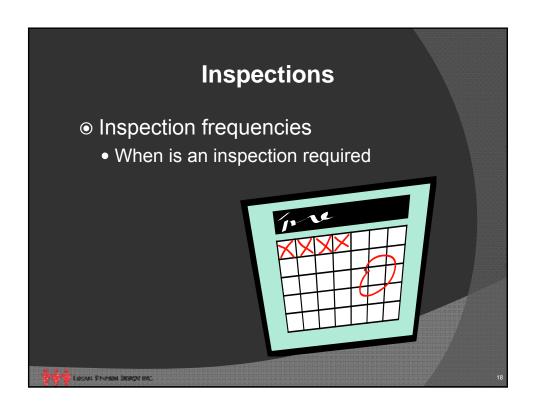












- Routine inspection schedules
 - Inspection Frequencies
 - Once every 7 calendar days
 - Once every 14 calendar days, and also within 24 hours of each storm event of 0.5 inch or greater
 - Once per month, but not within 14 calendar days of the previous inspection and within 24 hours of the occurrence of a storm event of 0.25 inch or greater

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Inspections

- Reduced inspection schedule
 - The operator may reduce inspection <u>if</u> the entire site has been temporarily stabilized, discharges or runoff is unlikely due to lack of rain or winter conditions
 - Inspected at least <u>once per month</u> (but not within 14 calendar days of the previous inspection) <u>and</u> before an anticipated storm event <u>and</u> within 24 hours of each storm event of 0.5 inch or greater in 24 hours

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- Inspection schedule for Inactive and Unstaffed sites
 - A site is inactive and unstaffed that will have an anticipated period of no construction activity for at least six consecutive months
 - Before becoming I&U and once every 6 months and within 24 hours of each 0.5 inch or greater rain event in 24 hours

Impaired or OAW sites are not eligible for this reduced inspection frequency unless they have undergone temporary stabilization

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Inspections

- Inspection schedule for sites within
 1/4 mile of Impaired Waters or OAWs
 - If any portion of the construction site is within 1/4 mile of an Impaired water or OAW, the operator shall inspect the site at least once

You can reduce inspections to the once per month and before an anticipated storm event and within 24 hours of each storm event of 0.5 inch or greater in 24 hours for areas of the construction site that have undergone temporary or final stabilization

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- Who performs inspections
 - In the SWPPP, Identify:
 - Personnel responsible for conducting inspections

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Inspections

- The inspector should:
 - Be a qualified person
 - A "Qualified Person" is someone knowledgeable in the principles and practices of erosion and sediment control and who possesses the skills to assess conditions at the site that could impact stormwater quality and the effectiveness of the control measures

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- The qualified personnel should review the requirements of the permit and know they are responsible for:
 - The design, installation, maintenance, and/ or repair of control measures (including pollution prevention measures) and treatment chemicals;
 - Conducting stormwater inspections
 - Taking corrective actions

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Inspections

- - Have a "Delegation of Authority"
 - ADEQ GCP Appendix B.9.b.
 - All reports, including inspection reports, must be signed by the signatory or a person described as a duly authorized representative of that person

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- Scope
 - The inspector has to examine each of the following:
 - All structural controls to ensure they are in place and functioning as intended
 - The effectiveness of non-structural controls and practices (such as good housekeeping practices and pollution prevention measures)
 - All areas of the site used for storage of materials that are exposed to precipitation

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Inspections

 The objective of inspections are to maintain structural and non-structural control measures at the site effectively





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Inspection Techniques • What works: • Take a copy of approved SWPPP on the field inspection • Use an inspection form (ADEQ Inspection Report) • Inspect the entire site including the perimeter and off site locations • Start inspection area(s) where discharge possibility is the highest

Inspection Techniques

• What works:

- Walk perimeter of the construction yard
- Identify existing conditions
- Take photographs (always document)
- Identify changes in construction that may require amendments to the SWPPP
- Evaluate Active and Non-Active construction areas



4.

Inspection Techniques

Ask yourself questions

- Is an effective combination of erosion and sediment control being implemented?
- Are the appropriate non-stormwater control measures being used?
- Are the appropriate Waste Management and Materials Pollution Control Measures being used?
- Was this area like this on the last inspection?
- Were issues identified in the last inspection addressed now?

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Inspection Techniques

- What to look for:
 - Comprehensive site compliance
 - Erosion and/or Sediment
 - Control measure (selection, installation and maintenance)
 - Off-site accumulation of sediment or other pollutants

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Inspection Techniques • What to look for: Good Housekeeping Material and chemical storage/handling o Debris and litter control o Perimeter and general site conditions Employee training Equipment preventative maintenance o Proper inventory and handling of cleaning products Sanitary needs Waste streams Lacar Spiran Design i













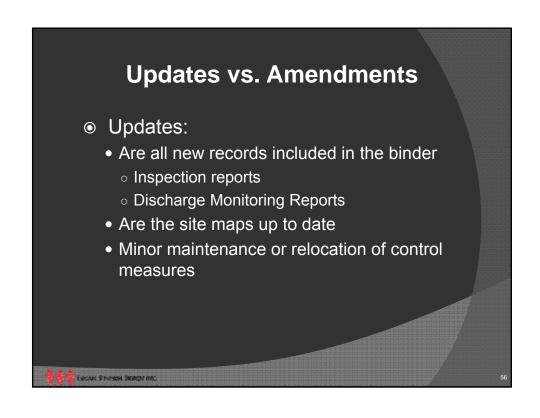












Updates vs. Amendments

- Amendments:
 - The SWPPP has to be revised to reflect current conditions and to maintain accuracy within 7 calendar days whenever:

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Updates vs. Amendments

 There is a change in design, construction, operation, or maintenance at the construction site that may have a significant effect on the discharge of pollutants to the waters of the U.S. that has not been previously addressed in the SWPPP; or

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Updates vs. Amendments

 During inspections, monitoring if required, or investigations by the operator or by ADEQ or USEPA, it is determined the discharges are causing or contributing to water quality exceedances or the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the construction site; or



Updates vs. Amendments

• There is a change to the stormwater team



Modifications vs. Corrective Action

- Modification:
 - The operator has to complete required revisions to the SWPPP within 7 calendar days following the occurrence of any of the conditions listed below.
 - The operator has to modify the SWPPP, including the site map(s), in response to any of the following conditions:

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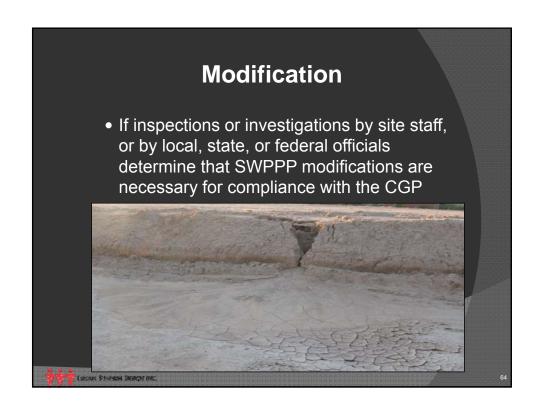
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Modification

- New operators become active in construction activities at the site
- Construction plans are changed (affecting any discharge)
- Control measures, pollution prevention measures, or other activities at the site are no longer accurately reflected in the SWPPP
 - This includes changes made in response to corrective actions being triggered

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Modification

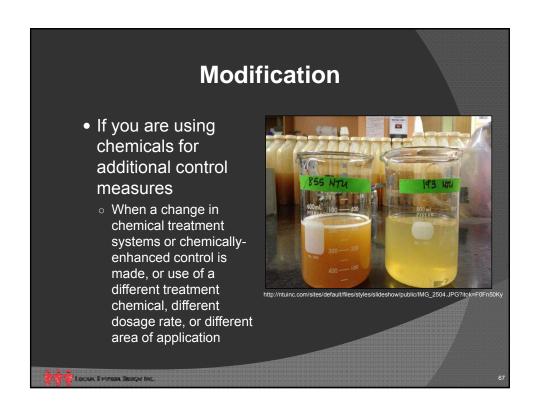
- ADEQ determines it is necessary to impose additional requirements on the discharge
 - If this occurs, the following items have to be included in the SWPPP:
 - A copy of any correspondence describing requirements; and
 - A description of the control measures that will be used to meet the requirements

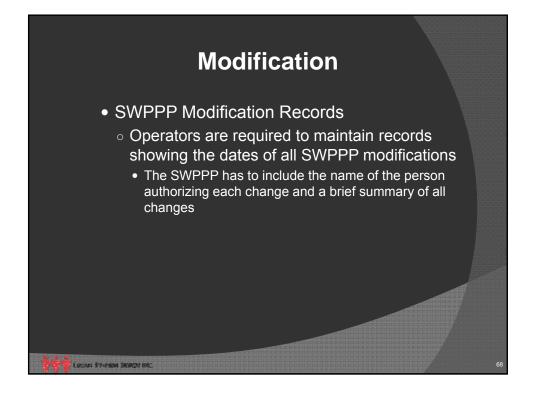
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Modification

 To reflect any revisions to applicable federal, state, tribal, or local requirements that affect the control measures implemented at the site

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Corrective Action

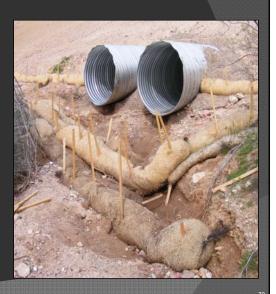
• Triggers:

- Corrective actions are actions the operator takes to modify, or replace any control measure that failed to meet the conditions of the CGP.
 - There are three listed conditions when the operator must employ new or modified control(s):

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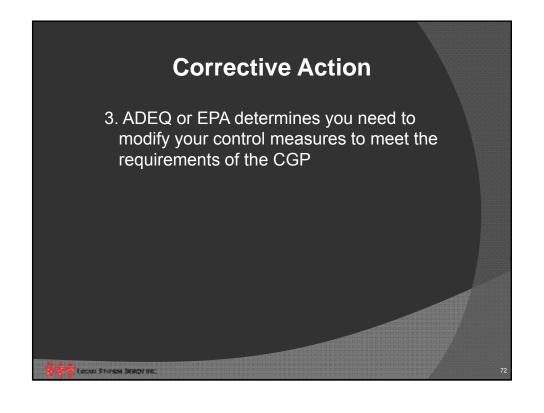
Corrective Action

1. A necessary control measure was never installed, was installed incorrectly, or not in accordance with the requirements in the CGP



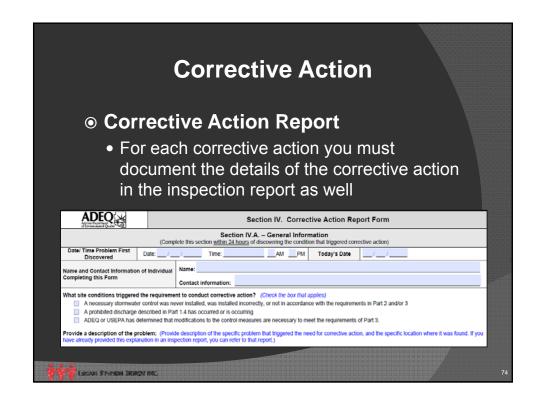
LOCAL STATEM DESCRIPTION





Corrective Action Deadlines • Any control measures or repairs required must be installed and working no later than 7 calendar days from the time of discovery • If this is not possible the CGP does have timeframe allowances • Rationale and reasons must be provided

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Corrective Action

Corrective Action Report

 Construction Sites Located within 1/4 Mile of an Impaired Water or OAW have to submit the CAR and retain a copy of the inspection report documenting the corrective action(s) onsite with the SWPPP

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Summary

- Always update your documents
- Inspect and maintain control measures
 - Structural and non-structural (employee training)
- Know the Permit
- Read the Permit
 - What you have to do
 - When you have to do it
 - When in doubt, go to the Permit

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