

**ATTACHMENT D-1.1**

**Stormwater Management Plan (SWMP) – Narrative Report  
General Requirements**

*Item A. Failure to prepare the SWMP in accordance with the state CDPS Stormwater Construction Permit may result in an enforcement action. Items in CDPS Stormwater Construction Permit are referenced after their section names.*

*Item B. The project designer may use this form to create a SWMP; check the “Submitted” column check boxes to document your submitted items. This form shall then be submitted to Development Engineering along with the SWMP (narrative report and drawings).*

*Item C. Prior to obtaining final approval from Development Engineering, the owner/contractor is required to obtain a CDPS Stormwater Construction Permit from CDPHE. The CDPS Stormwater Construction Permit Certification page will be submitted to the assigned Adams County project Development Review Engineer. The Stormwater Management Division will only sign off for approval once ALL required documents have been submitted and reviewed.*

*ITEM D. CD’s of the FINAL SWMP and ESCD’s shall be submitted to Development Engineering after approval and sign off.*

Case No.: \_\_\_\_\_ Project Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Reviewed By: \_\_\_\_\_

SWMP -  Approved       Resubmit       Rejected; resubmit

	Submitted	County Use Only		General Information
		Approved	Rejected	
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Required Copies</b> – Submit four (4) copies of the entire SWMP. Upon final approval, submit an electronic copy on one CD in Adobe PDF format containing the approved SWMP report and Erosion and Sediment Control drawings (ESCD).</p> <p>Comments: _____</p>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Sheet Size</b> – Report size to be 8½" x 11, bound with the Erosion and Sediment Control Drawings.</p> <p>Comments: _____</p>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Report Title Sheet</b> – Include the project name and location of proposed project/development, submittal date, project designer and project owner.</p> <p>Legally Responsible Party: _____</p> <p>CDPS Local Contact: _____</p>
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Applicant Information</b> – The following information shall be included on the cover sheet of the SWMP:</p> <ul style="list-style-type: none"> <li>– Applicant name, address and telephone number.</li> <li>– Consultant company name, preparer name, address and telephone number, if different from the applicant.</li> <li>– Engineer’s stamp, signature and date on final copy.</li> </ul> <p>Found on Page/s: _____</p>

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Submitted		County Use Only		SWMP Contents - Narrative Site Description
		Approved	Rejected	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>The SWMP shall include the following items at a minimum:</p> <p><b>Site Description Part I.C.1</b> - Clearly describe the construction activities to include:</p> <ul style="list-style-type: none"> <li>_ Provide a detailed description of the nature of the construction activity at the site.</li> <li>_ Proposed sequence for major construction activities to include Initial Phase I, Interim Phase II and Final Phase III.</li> <li>_ Estimate of the total area of the construction site and the total area of disturbance by clearing, excavating, grading or other construction activities which must include stock pile, staging areas and access roads.</li> <li>_ The location and description of any anticipated non-stormwater components of the discharge, such as but not limited to springs, landscape irrigation return flow.</li> <li>_ If water is discharged to a ditch, written permission from the Ditch Company must be provided to staff.</li> <li>_ Identify prior land use (e.g. landfill, farm, superfund, etc.)</li> <li>_ A description of soil types with drainage characteristics for erosion and how it may change when fill is brought in or excavated out.</li> <li>_ Identify any adjacent properties that may be affected by construction activities or impact site compliance.</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Erosion and Sediment Control Drawings (ESCD)</b> – The SWMP (narrative report) shall include a Phased ESCD (refer to Attachment D-1.3) that identifies and describes appropriate structural and non-structural BMPs that will be implemented, maintained and removed, before, during and after construction activities at the project site.</p> <p><i>Refer to ESCD Checklist B-13.1 for expected Phases of Construction No. 5</i></p> <p>Separate ESCD? : <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Staff Comments:</p>

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Submitted		County Use Only		<b>SWMP Contents - Narrative Site Description Continued</b>
		Approved	Rejected	
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Receiving Waters Part I.C.1.h</b> – Include the name of the receiving water(s) and the size, type and location of any site outfall(s). If the discharge is to an existing storm sewer system, identify the owner of this system, along with the name of the ultimate receiving water(s).</p> <p>Receiving Water(s): _____                      Found on Page/s: _____                      Staff Comments:</p>
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Pre-Disturbance Conditions Part I.C.1.e</b> – Include a description of the existing vegetation at the site and an estimate of the percent vegetative ground cover. Also, describe the existing topography, drainage patterns, ditches, creeks, streams, rivers and wetlands which may impact the site development or which may have negative impacts from site development.</p> <p>Found on Page/s: _____                      Staff Comments:</p>
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Pre-Disturbance Photos</b> – Adams County requires the applicant to include pre-disturbance color photos of the project site with the description of the pre-disturbance conditions to visually document the vegetation density prior to site disturbance.</p> <p><b>Color</b> Photos Included: ____ Yes ____ No                      Found on Page/s: _____                      Staff Comments:</p>



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				<b>SWMP Contents</b>
		<b>County Use Only</b>		<b>Identification of Potential Pollutant Sources</b>
Submitted	Approved	Rejected		
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Potential Pollutant Sources Part I.C.3.b)</b> – Evaluation of the following sources &amp; activities recognized through the review process as having the potential to contribute pollutants to stormwater. Here, the SWMP shall:</p> <ol style="list-style-type: none"> <li>1. Identify and describe expected sources of pollutants.</li> <li>2. Identify specific BMPs that will adequately control the source.</li> </ol> <p><i>(Project Designer to check items included in submittal.)</i></p> <p>✓ <b>Applicable Items</b></p> <ul style="list-style-type: none"> <li>– All disturbed and stored/stockpiled soils; stockpiles shall not be stored on impervious surfaces without BMP protection;</li> <li>– Vehicle tracking of sediments (haul routes);</li> <li>– Management of contaminated soils;</li> <li>– Loading and unloading operations;</li> <li>– Outdoor storage activities (squeegee, building materials, fertilizers, chemicals, etc.);</li> <li>– Vehicle and equipment maintenance and fueling;</li> <li>– Significant dust or particulate generating processes;</li> <li>– Routine maintenance activities involving fertilizers, pesticides, detergents, fuel, solvents, oils, etc.;</li> <li>– On-site waste management practices (solid waste piles, liquid wastes, dumpsters, construction debris, stock pile spoils, containers, etc.);</li> <li>– Concrete truck/equipment washing, including the concrete truck chute and associated fixtures and equipment (concrete, grout, paint);</li> <li>– Dedicated asphalt and concrete batch plants;</li> <li>– Non-industrial waste such as portable toilets;</li> <li>– Waste from geo-technical testing, potholing, saw cutting and utility borings for locates;</li> <li>– Fly ash;</li> <li>– Demolition of structures; and,</li> <li>– Other areas or procedures where the potential for spills and discharge could occur.</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>

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12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Structural Practices Part I.C.3.c)1</b> – Multiple BMPs are to be used during each phase of construction. Describe, what, where, when and how in the SWMP, the initial, interim and final structural BMPs that will minimize sediment transport and erosion.</p> <p><b>For each phase of construction -Phases I, II and III identify how each interim structural BMPs will minimize erosion and sediment transport. Include BMP Description Level of Detail Expectation is:</b></p> <ol style="list-style-type: none"> <li>1. What BMPs will be implemented?</li> <li>2. When will the BMPs be implemented and/or removed?</li> <li>3. Where will the BMPs be implemented?</li> <li>4. How will the BMPs be implemented?</li> </ol> <p>The following practices may include, but are not limited to:  <i>(Project Designer to check items included in submittal.)</i></p> <p><b>✓ Applicable Items</b></p> <table border="0"> <tr> <td><input type="checkbox"/> Vehicle Tracking Control VTC*</td> <td><input type="checkbox"/> Sediment Control Logs SCL</td> </tr> <tr> <td><input type="checkbox"/> Concrete Washout CWA</td> <td><input type="checkbox"/> Silt Fence SF</td> </tr> <tr> <td><input type="checkbox"/> Rock Sock RS</td> <td><input type="checkbox"/> Inlet Protection IP</td> </tr> <tr> <td><input type="checkbox"/> Stabilized Staging Area SSA</td> <td><input type="checkbox"/> Temp Diversion Channel DV</td> </tr> <tr> <td><input type="checkbox"/> Paving and Grading Operations PGO</td> <td><input type="checkbox"/> Stream Bank Stabilization SS</td> </tr> <tr> <td><input type="checkbox"/> Outlet Protection OP</td> <td><input type="checkbox"/> Temp Stream Crossing TSC</td> </tr> <tr> <td><input type="checkbox"/> Sediment Basin SB</td> <td><input type="checkbox"/> Temp Batch Plant TBP</td> </tr> <tr> <td><input type="checkbox"/> Sediment Trap ST</td> <td><input type="checkbox"/> Dewatering Operations DW</td> </tr> <tr> <td><input type="checkbox"/> Dewatering Operations DW</td> <td><input type="checkbox"/> Check Dams CD</td> </tr> <tr> <td><input type="checkbox"/> Other: _____</td> <td><input type="checkbox"/> Other: _____</td> </tr> </table> <p>Found on Page/s: _____</p> <p>Questions 1 – 4 (above) answered? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Staff Comments:</p> <p><small>*Key – 2010 UDFCD Vol. III Construction BMP Plan Symbols</small></p>	<input type="checkbox"/> Vehicle Tracking Control VTC*	<input type="checkbox"/> Sediment Control Logs SCL	<input type="checkbox"/> Concrete Washout CWA	<input type="checkbox"/> Silt Fence SF	<input type="checkbox"/> Rock Sock RS	<input type="checkbox"/> Inlet Protection IP	<input type="checkbox"/> Stabilized Staging Area SSA	<input type="checkbox"/> Temp Diversion Channel DV	<input type="checkbox"/> Paving and Grading Operations PGO	<input type="checkbox"/> Stream Bank Stabilization SS	<input type="checkbox"/> Outlet Protection OP	<input type="checkbox"/> Temp Stream Crossing TSC	<input type="checkbox"/> Sediment Basin SB	<input type="checkbox"/> Temp Batch Plant TBP	<input type="checkbox"/> Sediment Trap ST	<input type="checkbox"/> Dewatering Operations DW	<input type="checkbox"/> Dewatering Operations DW	<input type="checkbox"/> Check Dams CD	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____
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13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Acceptance and Control of Existing Off-Site Drainage</b> – In the SWMP, discuss how stormwater flowing into and/or through the construction site originating from off-site shall be controlled during construction.</p> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>																								
14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Non-Structural Practices Part I.C.3.c)2</b> – BMPs are expected to be redundant. Describe, what, when, where and how in the SWMP, interim and permanent non-structural BMPs including site-specific scheduling of the implementation of the practices.</p> <p><b>For each phase of construction -Phases I, II and III identify how each interim non-structural BMPs will minimize erosion and sediment transport. Include BMP Description Level of Detail Expectation is:</b></p> <ol style="list-style-type: none"> <li>1. What BMPs will be implemented?</li> <li>2. When will the BMPs be implemented and/or removed?</li> <li>3. Where will the BMPs be implemented?</li> <li>4. How will the BMPs be implemented?</li> </ol> <p>Non-structural practices may include, but are not limited to:</p> <p><i>(Project Designer to check items included in submittal.)</i></p> <p>✓ <b>Applicable Items</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">– Temporary Seeding TS*</td> <td style="width: 50%; border: none;">– Permanent Seeding PS</td> </tr> <tr> <td style="border: none;">– Mulching MU</td> <td style="border: none;">– Surface Roughening SR</td> </tr> <tr> <td style="border: none;">– Rolled Erosion Control Products RECP</td> <td style="border: none;">– Stabilized Staging Area SSA</td> </tr> <tr> <td style="border: none;">– Terracing TER</td> <td style="border: none;">– Sediment Trap ST</td> </tr> <tr> <td style="border: none;">– Wind Erosion and Dust Control DC</td> <td style="border: none;">– Good Housekeeping Practices GH</td> </tr> <tr> <td style="border: none;">– Earth Dikes ED</td> <td style="border: none;">– Protect Existing Veg. PEV</td> </tr> <tr> <td style="border: none;">– Vegetated Buffer VB</td> <td style="border: none;">– Drainage Swales DS</td> </tr> <tr> <td style="border: none;">– Street Sweeping Vacuuming SS</td> <td style="border: none;">– Temp Diversion Channel TDC</td> </tr> <tr> <td style="border: none;">– Stockpile Management SM</td> <td style="border: none;">– Soil Binder SB</td> </tr> <tr> <td style="border: none;">– Temp Slope Drain TSD</td> <td style="border: none;">– Construction Phasing CP</td> </tr> <tr> <td style="border: none;">– Temp Outlet Protection TOP</td> <td style="border: none;">– Construction Fence CF</td> </tr> <tr> <td style="border: none;">– Other: _____</td> <td style="border: none;">– Other: _____</td> </tr> </table> <p>*Key – 2010 UDFCD Vol. III Construction BMP Plan Symbols</p>	– Temporary Seeding TS*	– Permanent Seeding PS	– Mulching MU	– Surface Roughening SR	– Rolled Erosion Control Products RECP	– Stabilized Staging Area SSA	– Terracing TER	– Sediment Trap ST	– Wind Erosion and Dust Control DC	– Good Housekeeping Practices GH	– Earth Dikes ED	– Protect Existing Veg. PEV	– Vegetated Buffer VB	– Drainage Swales DS	– Street Sweeping Vacuuming SS	– Temp Diversion Channel TDC	– Stockpile Management SM	– Soil Binder SB	– Temp Slope Drain TSD	– Construction Phasing CP	– Temp Outlet Protection TOP	– Construction Fence CF	– Other: _____	– Other: _____
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		County Use Only		SWMP Contents Continued
Submitted		Approved	Rejected	
15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Phased BMP Implementation Part I.C.3.e).3</b> – The SWMP shall clearly describe the sequencing between the separate phases of construction, and the implementation and maintenance of both structural and non-structural BMPs.</p> <p>The SWMP <b>must</b> identify the BMPs to be implemented during the project phases. Construction during project phases can include but are not limited to clearing and grubbing, demolition, overlot grading infrastructure installation, road construction, vertical construction, final grading and final stabilization.</p> <p><b>Phases of Construction</b> – describe all BMPs associated with the construction activities, that will be used for each of the following phases:</p> <ul style="list-style-type: none"> <li>– <b>Phase I – Initial Construction</b> Examples of activities include: protect specified vegetation, construction staging/parking/storage, clearing, grubbing, tree and scrub removal, top soil stripping and stock piling temporary roads, and site access points.</li> <li>– <b>Phase II – Interim Construction</b> Examples of activities include: removal of existing pipe, earthwork (excavation/embankment), dewatering, construction of utilities &amp; structures, rip rap, and placement of top soil.</li> <li>– <b>Phase III - Final Construction</b> Examples of activities include: final topsoil placement, sod, seeding, mulching, permanent landscaping, pavement, sod, seed and mulching.</li> </ul> <p><b>Note: Phase ground disturbance stabilization so that any areas completed during that phase, should be permanently stabilized before commencing to the next phase of construction.</b></p> <p>Found on Page/s: _____</p> <p>ESCD BMP Phasing Plans included: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Staff Comments:</p>

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		County Use Only		Stormwater Management Controls Continued																
Submitted		Approved	Rejected																	
16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Waste Management and Disposal Part I.C.3.c).7</b> – The SWMP shall describe and locate practices implemented at the site to control stormwater pollution from <u>all</u> construction site wastes. These materials/activities could include, but are not limited to the following, consider:</p> <ol style="list-style-type: none"> <li>1. Notification procedures to be used in the event of an accident.</li> <li>2. Instructions for clean-up procedures and identification of spill kit location.</li> <li>3. Provisions for absorbents to be made available.</li> <li>4. Procedures for properly washing out concrete truck chutes,</li> </ol> <p><b>Explain the way each of these pollutants will be handled, stored and disposed of from the potential pollutant sources below:</b></p> <p><i>(County Plan Reviewer to check items included in submittal.)</i></p> <p>✓ <b>Applicable Items</b></p> <table border="0"> <tr> <td>– Exposed Storage of Building Materials</td> <td>– Chemicals and Waste Materials</td> </tr> <tr> <td>– Fertilizers or Pesticides</td> <td>– Mechanical Equipment Maintenance</td> </tr> <tr> <td>– Solvents</td> <td>– Mulch</td> </tr> <tr> <td>– Petroleum Products</td> <td>– Detergents</td> </tr> <tr> <td>– Grout Activities</td> <td>– Paint Washout</td> </tr> <tr> <td>– Concrete Washout</td> <td>– Geo-technical Testing</td> </tr> <tr> <td>– Vehicle Tracking</td> <td>– Stormwater/Groundwater Dewatering</td> </tr> <tr> <td>– Concrete Solid Waste</td> <td>– Other: _____</td> </tr> </table> <p><b>Note: On-site fueling will not be allowed within 50’ of any storm sewer infrastructure, drainage ditches, waterways, wetlands or environmentally sensitive area.</b></p> <p>Found on Page/s: _____</p> <p>Each pollutant handling, storage and disposal addressed?</p> <p><input type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p>Staff Comments:</p>	– Exposed Storage of Building Materials	– Chemicals and Waste Materials	– Fertilizers or Pesticides	– Mechanical Equipment Maintenance	– Solvents	– Mulch	– Petroleum Products	– Detergents	– Grout Activities	– Paint Washout	– Concrete Washout	– Geo-technical Testing	– Vehicle Tracking	– Stormwater/Groundwater Dewatering	– Concrete Solid Waste	– Other: _____
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				<b>Stormwater Management Controls Continued</b>
		<b>County Use Only</b>		
Submitted		Approved	Rejected	
17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Spill Prevention and Response Procedures</u></b> – The SWMP <b><u>must</u></b> include Spill Prevention and Response procedures. The description of these stormwater controls shall include the following components, at a minimum:</p> <p><b>“RESPONSE MATERIALS</b></p> <ol style="list-style-type: none"> <li>1. Spill Kit and Absorbent</li> <li>2. Storm Sewer Maps</li> <li>3. Spill Notebook and MSDS Notebook</li> <li>4. Tools: Shovel, Hammer, Manhole Hook, Broom and Dustpan</li> </ol> <p><b>STEPS IN RESPONDING TO A SPILL</b></p> <ol style="list-style-type: none"> <li>1. Stop the leading edge of the spill.</li> <li>2. Stop the source.</li> <li>3. Notify supervisor and contact help if needed.</li> <li>4. Clean up the spill or require the responsible party to clean up the spill.</li> <li>5. Complete Emergency Spill Response Form.</li> <li>6. Confirm cleanup is completed.</li> <li>7. Properly dispose of spilled and cleanup materials.</li> </ol> <p><b>REQUIRED CONTACTS</b></p> <ol style="list-style-type: none"> <li>1. Notify the State at 1-877-518-5608 if material could not be contained, or the spill cannot be cleaned up within 24 hours.</li> <li>2. Notify the National Spill Response at 1-800-424-8802, and the State, if any oil products enter State Waters.</li> <li>3. Notify CO Dept. of Labor and Employment at 303-318-8547 if more than 25 gallons of a petroleum product was spilled from a storage tank.</li> <li>4. Notify State Attorney General’s Office, Troy Arnold at 720-641-0177 regarding illegal dumping or an environmental crime.</li> <li>5. Contact the Stormwater Regulatory Compliance Unit at 720-523-6823 if you have any questions.</li> <li>6. Fax the Emergency Spill Response Form to Tri-County Health, at 303-220-9200 (Monte Dederick), Adams County Stormwater Regulatory Compliance Unit, at 720-523-6875.”</li> </ol> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>

**ATTACHMENT D-1.1**

**Final Stabilization and Long – Term Stormwater Management**

The CDPS Stormwater Construction Permit (COR-030000) requires that all disturbed areas, except those portions covered by pavement or a structure, must be final stabilized as construction activities are completed in order to inactivate the permit coverage. Sediment that collects within the site’s drainage system, and permanent water quality or quantity controls can also hold excess sediment. Drainage systems must be maintained. Accumulated sediment shall be removed during construction.

Phase site stabilization so that any areas completed during that phase will be permanently stabilized before commencing to the next phase of construction.

Final stabilization is attained when a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels.

	Submitted	County Use Only		
		Approved	Rejected	

18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Site Stabilization</b> - is a combination of structural and non-structural measures that will be implemented to temporarily or permanently stabilize the site.</p> <p><i>Describe the practices used to achieve final stabilization.</i></p> <p align="center"><b>(County Plan Reviewer to check items included in submittal.)</b></p> <p align="center"><span style="color: red;">✓</span> <b>Applicable Items</b></p> <p><b>Temporary</b> stabilization methods include, but are not limited to the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">– Sediment Control Log (SCL)</td> <td style="width: 50%;">– Mulching (MU)</td> </tr> <tr> <td>– Erosion Control Blankets (ECB)</td> <td>– Stabilized Staging Area (SSA)</td> </tr> <tr> <td>– Surface Roughening (SR)</td> <td>– Check Dams (CD)</td> </tr> <tr> <td>– Sediment Trap (ST)</td> <td>– Seed/sod vegetation (TS)</td> </tr> <tr> <td>– Other: _____</td> <td>– Other: _____</td> </tr> </table> <p>Temporary (interim) Seed Mix: _____</p> <p><b>Permanent</b> stabilization methods include, but are not limited to the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">– Grass Swale GS</td> <td style="width: 50%;">– Grass Buffer (GB)</td> </tr> <tr> <td>– Retention Pond RP</td> <td>– Extended Detention Basin EDB</td> </tr> <tr> <td>– Other: _____</td> <td>– Other: _____</td> </tr> </table> <p>Soil Amendment: _____</p> <p>Permanent (final) Seed Mix: _____</p> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>	– Sediment Control Log (SCL)	– Mulching (MU)	– Erosion Control Blankets (ECB)	– Stabilized Staging Area (SSA)	– Surface Roughening (SR)	– Check Dams (CD)	– Sediment Trap (ST)	– Seed/sod vegetation (TS)	– Other: _____	– Other: _____	– Grass Swale GS	– Grass Buffer (GB)	– Retention Pond RP	– Extended Detention Basin EDB	– Other: _____	– Other: _____
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– Other: _____	– Other: _____																			

**ATTACHMENT D-1.1**

**Inspection and Maintenance Procedures**

The SWMP shall clearly describe the inspection and maintenance procedures implemented at the site to maintain all erosion and Sediment control practices and other protective practices identified in the SWMP, in good and effective operating condition.

				County Use Only			
Submitted		Approved	Rejected				
19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Inspection Scope Part I.D.6.b)1</b> – The SWMP shall include a description of the inspection procedures that describe the inspection process to be used while stormwater quality inspection, at minimum the following:</p> <p style="text-align: center;"><i>(Project Designer to check items included in submittal.)</i></p> <p style="text-align: center;"><b>✓ Applicable Items</b></p> <ul style="list-style-type: none"> <li>– Construction site perimeter;</li> <li>– BMPs interior to the permitted area;</li> <li>– Discharge locations;</li> <li>– All disturbed areas;</li> <li>– Stockpiles and surface erosion;</li> <li>– Areas used for material storage that are exposed to precipitation;</li> <li>– Locations where vehicles access the site for evidence of pollutants leaving the construction site boundaries;</li> <li>– Any pollutant that may have entered into the storm sewer system. (e.g. Not limited to inlets, gutters, cross pans, channels, drainage swales or detention ponds);</li> <li>– Areas determined to have a significant potential for stormwater pollution; and,</li> <li>– BMPs identified in the SWMP for installation and maintenance.</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>			

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20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Minimum Inspection Schedule Part I.D.6.a:</u></b> The SWMP narrative report shall include descriptive information on the minimum stormwater quality construction inspection schedule, as required in Part I.C.6.a of the CDPS Stormwater Construction Permit.</p> <ul style="list-style-type: none"> <li>- <b>Standard Inspection:</b> Minimum once every 14 calendar days. Also, within 24-hours after the end of any precipitation or snowmelt event that causes surface erosion.</li> <li>- More frequent inspections may be required if site is having difficulty maintaining compliance with the CDPS Stormwater Construction permit.</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>
21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Conditional Inspection Modifications Part I.D.6.a)1, 2 and 3:</u></b> State in the SWMP the following conditional modifications to the minimum inspection schedule as stated in Part I.C.6.a of the CDPS Stormwater Construction Permit are allowed:</p> <ul style="list-style-type: none"> <li>- <b>Post-Storm Inspection at Temporarily Idle Sites</b> – CDPS Part I.C.6.a)1</li> <li>- <b>Inspections at Completed Sites/Areas</b> – CDPS Part I.C.6.a)2</li> <li>- <b>Winter Conditions Inspections Exclusion</b> – CDPS Part I.C.6.a)3</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>

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22.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Groundwater and Stormwater Dewatering Part I.C.3.c)8</u></b> – The SWMP narrative report must clearly describe the best management practices implemented at the site to control stormwater pollution from the dewatering of groundwater or stormwater from excavations, wells, ponds, etc.</p> <p>CDPHE Construction Dewatering Permit: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p>BMPs for Dewatering provided: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li><b>On-site construction dewatering to the ground under certain conditions is allowed by the CDPS Stormwater Construction Permit COR-030000. For off-site construction dewatering the proper State permits shall be obtained and a copy provided to the Neighborhood Services – Stormwater Regulatory Compliance Unit. Dewatering (DW)</b></li> <li><b>If “no” is selected and ground water is found, the Adams County Stormwater Quality Inspectors will require that the SWMP be updated.</b></li> </ol> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>
23.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Dedicated Concrete or Asphalt Batch Plants Part I.C.3.c)5</u></b> – As applicable, clearly describe in the SWMP (narrative report) and locate on the ESCD (plans) all practices implemented at the site to control stormwater pollution from dedicated concrete batch plants or dedicated asphalt batch plants covered by the CDPS Stormwater Construction permit.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>

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24.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Inspection Report/Records Part I.D.6.b)2</b> – The SWMP will identify the documentation necessary for records in the inspection report. At a minimum, the inspection report must include:</p> <ul style="list-style-type: none"> <li>– 1. Inspection date;</li> <li>– 2. Name(s) and title(s) of personnel making the inspection;</li> <li>– 3. Location(s) of discharges (transport) of sediment or other pollutants from the construction site;</li> <li>– 4. Location(s) of BMPs that need to be maintained;</li> <li>– 5. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;</li> <li>– 6. Location(s) where additional BMPs are needed that were not in place at the time of inspection;</li> <li>– 7. Deviations from the minimum inspection schedule;</li> <li>– 8. Descriptions of corrective actions for items 3, 4, 5 and 6, above, dates corrective action(s) taken, and measures taken to prevent future violations, including requisite changes to the SWMP, as necessary, and</li> <li>– 9. After adequate corrective action(s) has been taken, or where a report does not identify any incidents requiring corrective action, the report shall contain a signed statement indicating the site is in compliance with the permit to the best of the signer’s knowledge and belief.</li> </ul> <p>Found on Page/s: _____</p> <p>Staff Comments:</p>



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25.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Required Actions Following Site Inspections Part I.D.6.c</b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “Where site inspections note the need for BMP maintenance activities, BMPs must be maintained in accordance with the SWMP and Part I.D.7 of the CDPS Stormwater Construction permit.”</li> <li>– “Repair, replacement, or installation of new BMPs determined necessary during the site inspection to address ineffective or inadequate BMPs must be conducted in accordance with Part I.D.8 of the CDPS Stormwater Construction permit.”</li> <li>– “SWMP updates required as a result of deficiencies in the SWMP noted during site inspections shall be made in accordance with Part I.D.5.c of the CDPS Stormwater Construction permit.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
26.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>BMP Maintenance Part I.D.7</b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “All erosion and sediment control practices and other protective measures identified in the SWMP must be maintained in effective operating condition.”</li> <li>– “Proper selection and installation of BMPs and implementation of comprehensive Inspection and Maintenance procedures, in accordance with the SWMP, should be adequate to meet this condition.”</li> <li>– “BMPs that are not adequately maintained in accordance with good pollution control practices, including removal of collected sediment outside the acceptable tolerances of the BMPs, are considered to be no longer operating effectively and must be addressed in accordance with Part I.D.8 of the CDPS Stormwater Construction Permit.”</li> <li>– “BMP maintenance is expected to be proactive, not responsive.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>

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27.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Replacement of Failed BMPs Part I.D.8</b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “Adequate site assessment must be performed as part of comprehensive Inspection and Maintenance procedures, to assess the adequacy of BMPs at the site, and the necessity of changes to those BMPs to ensure continued effective performance.”</li> <li>– “Where site assessment results in the determination that new or replacement BMPs are necessary, the BMPs must be installed to ensure on-going implementation of BMPs as per Part I.D.2 of the CDPS Stormwater Construction permit.”</li> <li>– “Where BMPs have failed, resulting in noncompliance with Part I.D.2 of the CDPS Stormwater Construction permit, they must be addressed as soon as possible, immediately in most cases, to minimize the discharge of pollutants.”</li> <li>– “When new BMPs are installed or BMPs are replaced, the SWMP must be updated in accordance with Part I.D.5(c) of the CDPS Stormwater Construction permit.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
28.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b>Total Maximum Daily Load (TMDL) Part I.D.11</b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “If a TMDL has been approved for any waterbody into which the permittee discharges, and stormwater discharges associated with construction activity have been assigned a pollutant-specific Wasteload Allocation under the TMDL, discharge monitoring may be required.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p> <p><b>Note: South Platte River, segment 14, is on the 303d list for E-Coli, Cadmium, Copper, Nitrate, and Organic Enrichment/Low Dissolved Oxygen. Clear Creek is on the 303d list for manganese.</b></p>

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29.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>SWMP Availability Part I.D.10</u></b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “A copy of the SWMP shall be provided upon request to the Division, EPA, or Adams County and within the time frame specified in the request.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
30.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Retention of Records Part I.F.2</u></b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “The permittee shall retain copies of the SWMP and all reports required by the CDPS Stormwater Construction permit and records of all data used to complete the application to be covered by this permit, for three (3) years after expiration or inactivation of permit coverage.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
31.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Reduction, Loss, or Failure of Stormwater Controls Part II.A.9</u></b> – At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>– “The permittee has the duty to halt or reduce any activity if necessary to maintain compliance with the permit requirements.”</li> <li>– “Upon reduction, loss, or failure of any stormwater controls, the permittee shall, to the extent necessary to maintain compliance with its permit, control production, or remove all pollutant sources from exposure to stormwater, or both, until the stormwater controls are restored or an alternative method of treatment/control is provided.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>

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32.				<p><b><u>Proper Operation and Maintenance Part II.A.10</u></b> - At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>- The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the CDPS Stormwater Construction permit.</li> <li>- Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
33.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Inactivation Notice Part I.A.6</u></b> - At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>- “When a site has been finally stabilized in accordance with the SWMP, the permittee must submit an <b>Inactivation Notice</b> form, to the Division, that is signed in accordance with Part I.F.1 of the CDPS Stormwater Construction Permit.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>
34.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Permit Violations Part II.B.5</u></b> - At minimum, include the following statements in the SWMP:</p> <ul style="list-style-type: none"> <li>- “Failure to comply with any terms and/or conditions of the CDPS Stormwater Construction permit shall be a violation of the permit.”</li> </ul> <p>Found on Page/s: _____ Staff Comments:</p>

