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STORMWATER MANAGEMENT PLAN (SWMP) TEMPLATE 1 ACRE OR MORE ACRES OF DISTURBANCE (6/20/2024)

The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. Project Site Location:

Location or address of construction office:
El Paso County and Teller County: 39.008293, -105.025256

Owner	Contact Name	Contact (Phone & Email)
Utilities Director	KIP WILEY	719-687-5212, kwiley@woodlandpark.gov

Operator/Contractor	Contact Name	Contact (Phone & Email)
TBD	TBD	TBD

B. Project Site Description:

The project site is located in the Pike National Forest region near Woodland Park, Colorado, with access via Loy Creek Road in El Paso County and extending partially into Teller County. Rampart Range Road borders the area to the northwest. The project spans across a few sections. Township 12 South, Range 68, 6th principal meridian, El Paso County section 08 SW ¼, section 17 NW ¼, section 18 SW ¼, and Teller County section 18 NE ¼, section 18 NW ¼, and section 18 SE ¼.

Located southeast of the Primary Access Road is the Glen Aspen Ranch, a Boy Scout camp.

C. Proposed Schedule for Sequence for Major Construction Activities:

Stabilize all areas that are not paved or landscaped through establishment of vegetation cover.

Initial CMs will be installed before breaking ground. Clearing and grubbing will occur along roadway alignment while minimizing disturbances within the Limits of Construction/Disturbance. Interim CMs will be installed during grading and road work. On site runoff will be conveyed via roadside ditch. All roadside ditches will be vegetated with deep-rooted grasses and protected with a turf-reinforcement mat capable of withstanding high-velocity flows. All slopes will be stabilized with accepted seed mix where indicated in the ESC plans. PBSI Native Mountain Wetland Mix will be seeded where wetlands are delineated, a combination of PBSI Native Mountain Mix and PBSI Dry Native Mountain will be seeded in places of high velocity water flows, such as ditches, and PBSI Dry Native Mountain Mix will be seeded on steep slopes.

D. Acres of Disturbance:

1. Total area of construction site (LOC (PERMITTED AREA)): 5.4 acres
2. Total area of proposed disturbance (LDA): 5.4 acres
3. Total area of seeding: 2.3 acres
4. Total area of pre-project impervious surface: 0 sq. ft
5. Total area of final impervious surface: 71,145 sq.ft.

E. Existing Soil Data:

A geotechnical investigation that consisted of three boreholes showing the soil conditions to have a 6-inch organic layer on average, followed by denser sands and gravels with some clays near the surface in one of the boreholes. Based on geotechnical bore logs and NRCS Web Soil Survey, the Hydraulic Soil Group (HSG) B was selected for the site soil conditions. This indicates a moderate runoff potential – “soils having moderate infiltration rates when thoroughly wetted and consist of chiefly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures.” (El Paso DCM 1). The site soils exhibit moderate erodibility overall. The upper organic layer is susceptible to erosion when disturbed, while the underlying sands and gravels have low cohesion and can erode under concentrated flows. Geotechnical report explains that it's generally recommended that embankment slopes be armored and/or well vegetated. The NRCS Web Soil Survey results are found in Appendix A of the drainage report. Table 6-8 of the Drainage Criteria manual assigns HSG B to areas within Pike National Forest that are predominantly comprised of the Sphinx soil component.

Data Source(s): Geotech Report and <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

F. Existing Vegetation, Including Percent of Vegetative Cover:

During design, the SWMP Administrator for Design consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the CDPS-SCP.

Pre-Construction Date of survey: 9/22/2025 Percent Existing Vegetative Cover: 100%
Description of existing vegetation: Low areas along the drainages are shrub-wetlands, predominately a willow species. The surrounding uplands are conifer forest with a thin grass/forb understory and a few small openings. Ground cover is mostly forest litter with some downed wood.
Method for determining percent vegetative cover: site visit

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____

Description of vegetation:

G. Potential Pollutants Sources:

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. Drainage Patterns and Receiving Water(s):

1. Description of drainage patterns from the Site:
Stormwater drains northeast toward the Loy Creek wetland. Runoff from existing subbasins sheets down the mountainside, then concentrates in gullies and continues to Loy Creek. A culvert is included at the location where the roadway crosses a sub-basin to ensure runoff remains on its existing drainage path. This occurs once, where a 24" concrete culvert (P-2) has been added, as shown on the plans. As this road follows the top of the ridge, most of the runoff will sheet flow down the fill slopes and down the side of mountain matching existing conditions. Within cut areas and areas where ditching is proposed, the water runoff from roadway surface will follow the ditch until the ditch daylight which allows the water to flow down the mountain, or until it reaches the bottom of the alignment near the wetlands.
2. Names of immediate and ultimate receiving water(s) on site:
Loy Creek
3. Description of all stream crossings located within the Limits of Construction:
Loy Creek is within the limits of construction, crossing at the primary access entrance.

I. Allowable Non-Stormwater Discharges:

Stream Bypass pumping detail is provided on page 3.

Discharge Description	Site Map #	Method Statement (Location)
Temporary Stream Bypass via pump	3	Road Crossing at Loy Creek
Concrete Washout	18	Staging Area 1

J. Diversion Criteria:

1. Is a diversion planned for the Site? Yes No
2. If yes, complete information below:
 - a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)? 0.96 CFS
 - b. What are the monthly averages if available? N/A
 - c. What is the upstream contributing drainage area and imperviousness? 84.3 acres, 1.6%
 - d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP. TBD by contractor

1. Site Map Components:

- A. Project Construction Potential Site Boundaries:
See SWMP Site Maps
- B. Flow Arrows that Depict Stormwater Flow Directions On-Site, Run-On and Runoff Direction:
See SWMP Site Maps
- C. All Areas of Ground Surface Disturbance:
See SWMP Site Maps
- D. Areas of Cut and Fill:
See SWMP Site Maps



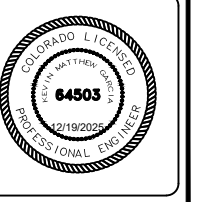
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- E. Areas Used for Storing and Stockpiling of Materials, Staging Areas (field trailer, fueling, etc.) and Locations of All Waste Storage and Batch Plants Including Masonry Mixing Stations:
See SWMP Site Maps
- F. Location of All Structural Control Measures Identified in the SWMP:
See SWMP Site Maps
- G. Location of Non-Structural Control Measures as Applicable in the SWMP:
See SWMP Site Maps
- H. Springs, Streams, Wetlands, Diversions, And Other State Waters Within or Bordering The Site, Including Areas That Require Pre-Existing Vegetation Be Maintained Within 50 Feet Of A Receiving Water:
See SWMP Site Maps, Q2 and Q3
- I. Locations of All Stream Crossing Located Within the Limits of Construction:
See Plans
- J. Protection of Trees, Shrubs, Sensitive Habitat, and Cultural Resources:
NA
- K. Locations of Pumped Stormwater Including Intake and Discharge Points and Locations of Dewatering Activities
See detail on page Q7.

2. Qualified Stormwater Managers:

- A. SWMP Administrator for Design:
CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Jake Hoeffner	254-495-0595	532FF02F

- B. SWMP Administrator for Construction: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining, and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of current TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Certification Expiration Date	Start Date
Jake Hoeffner	254-495-0595	532FF02F		

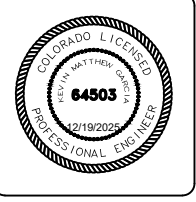
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C. **Erosion Control Inspector:** (As defined in Section 208) The Contractor shall designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03(c) (Copy of current TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Certification Expiration Date	Start Date
To be filled by Contractor				

D. **Permanent Stabilization Subject Matter Expert:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.
 [See the Construction Phase Inspection and Verification Checklist on the Landscape Architecture website for regional contacts to address revegetation questions:
<https://www.codot.gov/programs/environmental/landscape-architecture/assets/inspection-and-verification-checklist-for-roadside-revegetation.pdf>]

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Attend the Partial Landscape Completion Walkthrough.
6. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]
Pawnee Buttes Seed Inc	paul@pawneebuttesseed.com

3. Stormwater Management Controls for Initial Construction Activities Associated with Water Quality

The Contractor Shall Perform the Following:

- A. **Potential Pollutant Sources:**
 Evaluate, identify, locate, and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP, and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.
- B. **Offsite Drainage (Run on Water):**
 Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.
- C. **Vehicle Tracking Control:**
 Control measures shall be implemented in accordance with subsection 208.04.
- D. **Perimeter Control:**
1. Temporary control measures shall be installed prior to commencing construction activities associated with water quality in accordance with subsection 208.04.
 2. Perimeter control may consist of berms, silt fence, erosion logs (sediment control logs), existing landforms, or other control measures as approved.

4. During Construction

Responsibilities of the SWMP Administrator for Construction: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, the SWMP Administrator for Construction shall have full responsibility to maintain and update the SWMP in accordance with subsection 208.03(c).

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

- A. **Materials Handling and Spill Prevention and Response Plan:** Prior to commencing Construction Activities Associated with Water Quality, the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.
- B. **Other CDPS Permits or Guidance Documents:** List applicable CDPS permits or guidance documents associated with the permitted site and activities.
- C. **Stockpile Management:** Shall be done in accordance with subsections 107.25 and 208.07.
- D. **Concrete Washout:** Concrete and masonry washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- E. **Saw Cutting:** Shall be done in accordance with subsections 107.25, 208.02, 208.04, 208.05.
- F. **Street Sweeping:** Shall be done in accordance with subsection 208.04.

5. Inspections

- A. Form 1176 Inspections shall be in accordance with subsection 208.03(c).
- B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

6. Control Measure Maintenance

At any time, regardless of the inspection schedule, CDOT or the Contractor shall identify control measures requiring corrective action. Identified noncompliance shall be corrected immediately, but no later than 2 calendar days from the time of observation. Corrective actions shall be in accordance with subsection 208.04(f).

7. Record Keeping

Records shall be kept in accordance with subsection 208.03(d).

8. Temporary, Permanent Stabilization and Long-Term Stormwater Management

The Contractor shall comply with all temporary stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. **Seeding Plan:**

The following seed mix(es) and rates are for hydraulic seeding method as shown on the Permanent Stabilization Site Maps shall be used:

SEED MIX	COMMON NAME	% Mix	LBS PER ACRE	TOTAL LBS
PBSI Native Mountain Wetland Mix	Fowl Blue Grass	14	20LBS/Acre	2
	Canada Wildrye	14		
	Ticklegrass	14		
	Tufted Hairgrass	12		
	Nebraska Sedge	8		
	Fowl Mannagrass	5		
	Sawbeak Sedge	5		
	Creeping Spikerush	5		
	Beaked Sedge	5		
	Small Fruited Bulrush	5		
	Baltic Rush	4		
	Olney Three-square Bulrush	4		
	Porcupine Sedge	3		
	Meadow Sedge	1		
	Aquatic Sedge	0.5		
	Dagger Leaf Sedge	0.5		

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PBSI Native Mountain Mix	Mountain Brome	25	50LBS/Acre	15
	Slender Wheatgrass	20		
	Sandberg Bluegrass	10		
	RM Fescue	10		
	Blue Wildrye	10		
	Streambank Wheatgrass	15		
	Tufted Hairgrass	2.5		
	Alpine Bluegrass	2.5		
	Idaho Fescue	0.5		
PBSI Dry Native Mountain	Sandberg Bluegrass	10	50 LBS/Acre	115
	Mountain Brome	20		
	Slender Wheatgrass	15		
	Bluebunch Wheatgrass	10		
	RM Fescue	10		
	Thickspike Wheatgrass	15		
	Bottlebrush Squirreltail	2.5		
	Streambank Wheatgrass	15		
Alpine Bluegrass	2.5			
Total				132

B. Seeding Application Method:

The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00022	Seeding (Riparian)	0.3
212-00707	Seeding (Native) Hydraulic	2
212-00710	Seeding (Wetland) Hydraulic	0.1
	Total	2.4

C. Soil Stabilization Methods:

Minimum soil stabilization methods for all disturbances to receive seeding.

- Apply appropriate seed mix on designated areas. See 8A. Seeding Plan for application rates. For general steep slopes it's recommended to use the PBSI Dry Native Mountain Mix, for Areas of high velocity swale areas, it's recommended to hand broadcast and rake in the seeds while using a combination of PBSI Dry Native Mountain Mix and PBSI Native Mountain mix with a 50/50 ratio at 100LB/AC, and use PBSI Native Mountain Wetland mix for wetlands. Turf Reinforcement Mat will be placed after seeding. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.
- Install Turf Reinforcement Mat in all ditches and slopes.

D. Special Requirements:

- Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete temporary stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
- Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
- The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

E. Soil Amendment Requirements: Minimum amendment material requirements for all disturbances to receive seeding.

N/A

F. Permanent Stabilization Application Under Structures:

Under structures, shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

G. Reseeding Operations/Corrective Stabilization:

Prior to stormwater construction work partial acceptance.

- All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
- The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.

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H. Location and Description of Planned Permanent Control Measures:

Is Permanent Water Quality Required. No

PCM exemption because the land is zoned as agricultural and falls under EPC exclusion IO.7.1.B.5 with land greater than or equal to 2.5 acres in size and with an impervious area less than 10 percent.

9. Prior to Project Final Acceptance

- A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (sediment control logs) (or equivalent) or permanent riprap.
- C. If required, include work in 202-04002 Clean Culvert.
- D. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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10. Narratives

Control Measure Matrixes During Construction:

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer, the SWMP Administrator for Construction shall: Place an "X" in the column "M-208 Standard or 'X' for Non-Standard" and complete a Non-Standard Control Measure Specification and Narrative. The Narrative shall include drawings, dimensions, installation information, materials, implementation processes, control measure-specific inspection expectations, and maintenance requirements of the control measure. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column "In Use On Site" when the control measure has been installed.
- A "B" in the "Initial Activities" column indicates that the control measure shall be installed **before** construction activities associated with water quality commence. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

Application, Control measure	Narrative	M- 208 Standard or "X" For Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Protection of Existing Wetlands Fence (plastic) and erosion logs (sediment control logs)	Fence (plastic) shall be placed in combination with erosion logs (sediment control logs) to prevent encroachment of construction traffic and sediment into state waters prior to start of construction activities associated with water quality. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs (sediment control logs) shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			B	X	
Check Dam/Ditch Check/Erosion Control Logs Erosion log (sediment control log), silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction activities associated with water quality.	M-208			X	X
Culvert Inlet/Outlet Protection Erosion logs (sediment control logs), aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction activities associated with water quality.	M-208		B	X	X
Stockpile Protection Temporary berm, erosion logs (sediment control logs), aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the workday. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			X	
Perimeter Control Erosion logs (sediment control logs), silt fence, temporary berms	Placed prior to construction activities associated with water quality commencing to address potential run-on water from off site, and to divert around disturbed area.	M-208		B	X	
Slope Control Silt fence	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction activities associated with water quality.	M-208		X	X	
Application, Control measure	Narrative	M- 208 Standard or "X" For Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Outlet Protection Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12			X	X
Pre-fabricated Vehicle Tracking Pad	Vehicle tracking pads shall be used at all vehicle and equipment exit points from the site to prevent sediment exiting the LOC. Place prior to the start of construction activities associated with water quality.	X		B or X	X	
Dewatering (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering State waters.			X	X	
Clean Water Diversion	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.			X	X	
Other						

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Non-Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to: Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

Application, Control measure	Narrative	M- 208 Standard Or "X" for Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Topsoil Management Stockpile/Salvage Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		X	X	X
Surface Roughening / Grading Techniques	Daily stabilization of disturbance and to minimize wind erosion.				X	
Bonded Fiber Matrix or Mulching (Hydraulic)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Temporary or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.				X	
Straw or Hay Mulch/Mulch Tackifier	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Temporary Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
Spray-On Mulch Blanket (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X
Seeding Permanent (Native Perennial)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
Turf Reinforcement Mat	Temporary or Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	X			X	X
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from leaving the LOC. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
Other						

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 Colorado Springs, CO 80919
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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
SWMP NARRATIVE

NO.	DESCRIPTION	REVISIONS		DATE
		BY	APP.	
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL



Proj.#: W0309.25020
 Date: DECEMBER 2025
 Design: KMG
 Drawn: KEG
 Check: DES

SHEET NUMBER
Q15

2026/03/13 5:14 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_SWMP.dwg

11. Tabulation of Stormwater Quantities

A. It is estimated that [30] hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Combination Loader.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const	Interim Const.	Permanent Stabilization	*Total Quantity
	203-01594	Combination Loader	Hour	X	X		30
X	208-00020	Silt Fence	LF	X	X		4,860
X	208-00023	Erosion Log Type 3 (12 in)	LF		X	X	551
X	208-00041	Rock Check Dams	EA		X	X	59
	208-00045	Concrete Washout	EA		X		1
	208-00075	Pre-fabricated Vehicle Tracking Pad	EA	X	X		24
	208-00107	Removal of Trash	Hour		X		20
	208-00207	Erosion Control Management (ECM)	Day				60
X	211-03005	Dewatering	LS				1
	212-00022	Seeding (Riparian)	AC			X	0.4
	212-00710	Seeding (Wetland) Hydraulic	AC			X	0.1
	212-00707	Seeding (Native) Hydraulic	AC			X	1.9
	216-00302	Turf Reinforcement Mat (Class 2)	SY		X	X	10,239
	420-00132	Geotextile (Separator) (Class 1)	SY		X	X	85
	506-00206	Riprap (6 IN)	CY			X	22
	506-00218	Riprap (18 IN)	CY			X	10
	506-00226	Riprap (24 IN)	CY			X	86

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

12. Biological Impacts and Dewatering

A. Environmental Impacts:

1. Wetland Impacts: Yes
2. Stream Impacts: Yes

B. Dewatering:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

https://drive.google.com/open?id=17ck1ZJoiHSacJ_wxp2FfUr4rAxNgVWZv

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering

Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

13. Notes

[Use of this section may include, but is not limited to, documenting assumptions made in cost estimating]

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CITY OF WOODLAND PARK
 GLEN ASPEN DAM - ACCESS IMPROVEMENTS
 SWMP NARRATIVE

NO.	DESCRIPTION	BY	APP.	DATE							
				DUR	KMG	FEB	MAR	APR	MAY	JUN	
1	EPC COMMENTS										
2	BMP REVISION										
3											
4											
5											
6											
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