

Stormwater Inspection Report

Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	Shell 797-03B Pad
Date:	Wednesday, October 19, 2022
Weather:	Clear, Calm, 74°, Lo 40°



Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

Phase(s) of Construction Inspected	No Activity	Clear & Grade	Facility Installation	Drilling Operations	Reclamation	Acres of Disturbance Inspected
	X					0

Stormwater Compliance Questions		YES	NO	N/A
1	Any BMPs Fail or Require Maintenance?	X		
2	Any Issues Identified Requiring the Installation of Additional BMPs?	X		
3	Any Sediment or Other Pollutants Discharged Outside Project Boundaries?		X	
4	Any BMPs Repaired or Maintained?	X		
5	Any New BMPs Installed?	X		
6	Any Hazardous Materials Spilled or Leaked?		X	
7	Any Deviation from the Minimum Inspection Schedule?		X	

Comments / Descriptions / Explanations
<p>One BMP crew continued repairing erosion damage and impacted BMPs on the Shell 797-03B pad. EI received COGCC Document #696204259 this morning which identifies specific issues to be addressed, many of which were previously identified in the routine 30-day stormwater inspection and were already scheduled for repair. The mulch blower identified in Photo #12 (Labeled Photo #14) was recently staged on the Shell 797-03B pad to apply straw mulch to the Shell 797-03B pad. It has been on location for less than one week and will be removed from the location as soon as all straw mulch applications have been made. The BMP crew began addressing issues identified in Photos #1 through #7 yesterday. These photos identify large scale erosion across much of the Shell 797-03B cut and fill slopes. It will be a multi-day effort to correct all of these issues and work may extend into next week. A mini-ex was used to begin making repairs to the damaged containment berm identified in Photo #6. Excess material that was washed down the cut slope into the containment berm is being removed and repurposed as fill for repairing erosion features, and/or, improving/repairing BMPs. A mini-ex was also used to maintain the upper containment trench located on the upper end of the Shell 797-03B cut slope. The mini-ex was also used to repair deeper erosion features. A mulch blower was used to apply 100 certified, weed-free straw bales as mulch to the cut slope. 1,000 of liquid amenities and tackifier was applied to portions of the straw mulch to help hold the material in place and provide nutrients to weak soils. An additional 45 pounds of QuickGuard and six pounds of Lower Cascade Seed Mix were broadcast over areas experiencing erosion, prior to hand raking or harrowing to remove erosion and incorporate seed.</p>

Photo 1



Operator Repairing Earthen Berm Identified in Photo #6

Photo 2



Maintaining Inundated Excelsior Wattle Identified in Photo #5

Photo 3



Applying Straw Mulch

Photo 4



Applying Liquid Amenities/Tackifier

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

10/19/2022

Inspector Signature

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Part I.A.3.f. Compliance Signature Requirement

"I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."

Stormwater Manager Certification Signature