

## Stormwater Inspection Report



<b>Operator:</b>	Laramie Energy, LLC
<b>Project:</b>	Cascade Creek
<b>Location:</b>	Cascade Creek 697-08-53 Pad
<b>Date:</b>	Wednesday, May 12, 2021
<b>Weather:</b>	Mostly Sunny, Light Wind, 61°, Lo 34°

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

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

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

Comments / Descriptions / Explanations
<p>One BMP crew mobilized equipment and supplies to the Cascade Creek 697-08-53 pad to begin addressing issues identified by COGCC. The crew began with removing concrete rubble from the southern containment berm and fill slope. A mini-ex was used to pull out the concrete and load into a dump trailer for disposal. One full dump trailer was hauled away today with roughly one more load staged for removal tomorrow. This crew is scheduled to continue operations on this location tomorrow.</p>

**Photo 1**



*Pulling Concrete out of the Fill Slope*

**Photo 2**



*Pulling Concrete out of the Containment Berm*

**Photo 3**



**Photo 4**



**Inspector Name and Title**

Mark Carlson, Environmental Inspector

*Mark Carlson*

5/12/2021

**Inspector Signature**

**Date of Signature**

**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**

## Stormwater Inspection Report



<b>Operator:</b>	Laramie Energy, LLC
<b>Project:</b>	Cascade Creek
<b>Location:</b>	Cascade Creek 697-08-53 Pad
<b>Date:</b>	Thursday, May 13, 2021
<b>Weather:</b>	Partly Cloudy, Light Wind, 70°, Lo 39°

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

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

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

Comments / Descriptions / Explanations
<p>One BMP crew continued to work on the Cascade Creek 697-08-53 pad to address issues identified by COGCC in document #696202120. A second dump trailer load of concrete rubble was removed from the fill slope and hauled off for disposal. The issues identified in Photo #11 and #12 was addressed by raking out erosion on the fill slope and repairing the containment berm above. Material was pulled into the cut-slope to lessen the pitch. An earthen berm and containment trench were installed below the cut slope to serve as BMPs for future runoff. 100 pounds of 12-12-12 fertilizer and 5 pounds of crested wheatgrass and 5 pounds of smooth brome were broadcast over the cut slope. Seed and fertilizer were hand raked to incorporate into the soil. The cut slope was then treated with 1,050 gallons of liquid soil amenities and nutrients to help foster germination and growth in the weak soils.</p>

**Photo 1**



*Material Pulled into the Cut Slope*

**Photo 2**



*Hand Raking Seed to Incorporate into Soils*

**Photo 3**



*Applying Soil Amenities and Nutrients*

**Photo 4**



*Applying Soil Amenities and Nutrients*

**Inspector Name and Title**

Mark Carlson, Environmental Inspector

*Mark Carlson*

**Inspector Signature**

5/13/2021

**Date of Signature**

**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**

## Stormwater Inspection Report



<b>Operator:</b>	Laramie Energy, LLC
<b>Project:</b>	Cascade Creek
<b>Location:</b>	CC 697-08-53 Pad
<b>Date:</b>	Tuesday, May 25, 2021
<b>Weather:</b>	Clear, Light Wind, 79°, Lo 41°

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

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

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

Comments / Descriptions / Explanations
<p>Both BMP crews worked on the Cascade Creek 697-08-53 pad today to address issues identified by COGCC in Document #696202120. A total of 550 feet of excelsior wattle was installed below the eastern fill slope to address issues identified in Photos #9 thru #13. Disturbance of existing vegetation was minimized to the extent possible while installing the wattle. Excelsior wattle was installed near original perimeter containment berms and trenches as possible to maximize the amount of space available for future reclamation operations. The eastern fill slope was broadcast seeded with 25 pounds of QuickGuard to provide additional stabilization. Permanent seed, soil amenities, or nutrients were not applied to the eastern fill slope as it will be disturbed during future reclamation activities.</p>

**Photo 1**



*Broadcast Seeding Eastern Fill Slope*

**Photo 2**



*Removing Existing Vegetation to Install Excelsior Wattle*

**Photo 3**



*Excelsior Wattle Installed on East Side of Location*

**Photo 4**



*Excelsior Wattle Installed on East Side of Location*

**Inspector Name and Title**

Mark Carlson, Environmental Inspector

*Mark Carlson*

**Inspector Signature**

5/25/2021

**Date of Signature**

**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**

## Stormwater Inspection Report



<b>Operator:</b>	Laramie Energy, LLC
<b>Project:</b>	Cascade Creek
<b>Location:</b>	CC 697-08-53 Pad
<b>Date:</b>	Wednesday, May 26, 2021
<b>Weather:</b>	Cloudy, Breezy, 80°, Lo 47°

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

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

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

Comments / Descriptions / Explanations
<p>Two crews continued to operate on the Cascade Creek 697-08-53 pad to address issues identified by COGCC in Document #696202120. Additional supplies were mobilized to the site this morning. The crews completed the wattle installation on the east side of the location below the fill slope. The similar installation was started on the western side of the location to address items identified in Photos #18 and #26. A total of 600 feet of excelsior wattle was installed today. All disturbances associated with the wattle installations were seeded and hand raked. Works is scheduled to continue tomorrow.</p>

**Photo 1**



*Broadcasting Seed over Disturbed Ground*

**Photo 2**



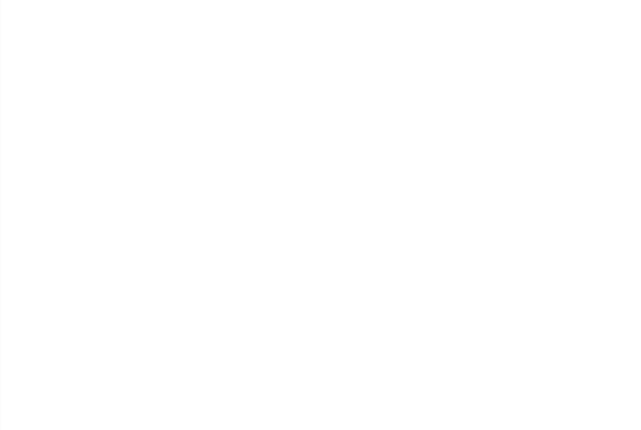
*Installing Excelsior Wattle on the CC 697-08-53 Pad*

**Photo 3**



*Installing Excelsior Wattle on the CC 697-08-53 Pad*

**Photo 4**



**Inspector Name and Title**

Mark Carlson, Environmental Inspector

*Mark Carlson*

**Inspector Signature**

5/26/2021

**Date of Signature**

**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**

## Stormwater Inspection Report



<b>Operator:</b>	Laramie Energy, LLC
<b>Project:</b>	Cascade Creek
<b>Location:</b>	CC 697-08-53 Pad
<b>Date:</b>	Thursday, May 27, 2021
<b>Weather:</b>	Mostly Sunny, Light Wind, 83°, Lo 50°

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

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

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

Comments / Descriptions / Explanations
<p>Two crews continued addressing items on the Cascade Creek 697-08-53 pad as were identified by COGCC in Document #696202120. The crews installed 950 feet of excelsior wattle below the western fill slopes today. A mini-ex was used to remove existing vegetation and to remove existing, deteriorated wattle. Disturbances were kept to a minimum to complete this work. 33 feet of 6-inch flex hose was also installed on the west side of the location to serve as a protected outlet to address concerns identified in Photo #26. The crew swept the pad to collect and remove trash and debris. Other than reducing the overall size of the location, all items listed in Document #696202120 have been addressed.</p>

**Photo 1**



*Removing Old Deteriorated Wattle on CC 697-08-53 Pad*

**Photo 2**



*Installing Trench for Wattle Installation*

**Photo 3**



*Installing Wattle on the CC 697-08-53 Pad*

**Photo 4**



*Installing Flex Hose Outlet on CC 697-08-53 Pad*

**Inspector Name and Title**

Mark Carlson, Environmental Inspector

*Mark Carlson*

**Inspector Signature**

5/27/2021

**Date of Signature**

**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**