

C/015/025 Incoming
CC: Joe



United States Department of the Interior

OFFICE OF SURFACE MINING
Reclamation and Enforcement
Western Region Office
1999 Broadway, Suite 3320
Denver, CO 80202-3050



June 18, 2015

RECEIVED
JUN 23 2015
DIV. OF OIL, GAS & MINING

Dana Dean
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

Dear Ms. Dean,

I have enclosed copies of OSMRE's inspection report for the Bear Canyon Mine (Partial Independent) that was conducted the week of May 11, 2015.

If you have any questions regarding these reports, please do not hesitate to contact me at (303) 293-5046.

Sincerely,

Spencer Shumate
Natural Resources Specialist, Denver Field Branch

Attachment: Copy of Bear Canyon Mine Partial Independent Inspection Report



**U.S. DEPT. OF THE INTERIOR
OFFICE OF SURFACE MINING
Mine Site Evaluation
State Program**



1. Permittee/Person CASTLE VALLEY MINING LLC		9. Permit Number C0150025	10. Permit Type PI*
2. Address 424 LEWIS HARGETT CIRCLE SUITE 250		11. Field Visit Date 5/13/2015 <small>mm - dd - yyyy</small>	12. Purpose OPI
3. City LEXINGTON		13. SRA Present Y	14. Permit Status A
4. State KY		15. Site Status AP	16. Facility Type B
5. Zip Code 40503	6. Phone Number (859) 519-3637	17. OSM Office # 140	18. CCID #
7. Operator Name, if Different than Permittee 		19. Land Code F	20. M.S.H.A. ID # 42-01697
8. Mine Name BEAR CANYON		21. State Abbrev. UT	22. County/Burrough EMERY
		23. AVS Permittee Entity ID Number 250853	24. State Office

25. Hours	<input type="checkbox"/> 20.0	a. Permit Review	26. Signature Block  Signature: John Shumate, ID#545 Printed Name: Date: <input type="text" value="6/18/2015"/>	27. Reviewing Official:  Signature: Review Date: <input type="text" value="06-18-2015"/> <small>mm - dd - yyyy</small> Is Supplemental MSF Page Used Y/N <input checked="" type="checkbox"/> Y
	<input type="checkbox"/> 7.0	b. Site Visit Time		
	<input type="checkbox"/> 14.0	c. Travel Time		
	<input type="checkbox"/> 4.0	d. Report Writing		

Permit Type - Item 10 IP = Interim Program PP = Permanent Program NP = No Permit

Purpose Type Codes - Item 12
 Oxx...Oversight Rfx...Reclamation Fees CCR...Citizen Complaint Referral (non-site visit)
 Axx...Assistance Fxx...Federal Actions CC...Citizen Complaint (initial site visit)
 CCF...Assistance

Joint Inspection - Item 13 A joint inspection is when a state inspector accompanies an OSM inspector at any time during the review of the mine site

Permit Status - Item 14

A Active: Coal mining activities occurring or permitted but not yet disturbed.	AB Abandoned: All surface and underground coal mining activities have ceased and operator has left the site without completing reclamation as defined in 30 CFR 840.11(g).
IN Inactive (Permanent Program Permit): Phase II completed or Temporary Cessation of Operations. (Interim Program Permit): Coal mining completed and reclamation activities initiated.	AB1 Bond Forfeiture: Bond forfeiture officially in process or completed and reclamation in progress or not yet commenced.
BR Bond Release: Reclamation completed and State Regulatory Authority(RA) has released all of the bond (Phase III Release).	AB2 Partially Reclaimed Forfeiture: Forfeited site where all bonds have been used to reclaim site, but site not reclaimed to Program standards.
	AB3 Reclaimed Forfeiture: Forfeited site that has been reclaimed to Program standards.
	NA Not Applicable: When site is unpermitted.

Site Status - Item 15

ND No Disturbance: No coal mining and reclamation operations have been started.	MC Mining Complete: No mining activity on site, site regraded and awaiting bond release.	NS Non-Site Visit: Status of site not determined.
EX Coal Exploration: Coal exploration operations have started and where coal mining operations have not begun.	TC Temporary Cessation: The RA has granted cessation of mining pursuant to 30 CFR 816/817.13(b).	FP Forfeiture Pending: The RA is pursuing actions to revoke the permit, collect the performance bond(s), and/or reclamation of forfeited site is in progress.
AP Active Coal Producing: Coal surface mining activities are occurring.	P1 Phase I Release: At least Phase I bond release granted for entire permitted area. For Interim permits, partial bond release.	FR Forfeited and Reclaimed: Forfeiture reclamation completed.
AN Active Non-Producing: Active non-producing facility such as tipple or preparation plant.	P2 Phase II Release: At least Phase II bond release for the entire permitted area.	FO Abandoned Site: Abandoned site that is permitted but there is no bond.
NM No Mining: The Permit Status is active, site is not in Temporary Cessation, no surface coal mining activity, and site not regraded.	P3 Phase III Release: Reclamation completed and the RA has released all bond.	WC Wildcat: Coal mining and reclamation operations have or are taking place and the activity is not covered by the required permits from the RA.

Facility Type Codes - Item 16

A ...Surface	D ...Ancillary (Haulroad, Conveyor, and/or Rails	H ...Exploration Permits	K ...Government Financed Construction Exemption
B ...Underground	E ...Refuse and/or Impoundment	I ...Notice of Intent to Explore	L ...Remining site permitted under 30 CFR 785.25
C ...Preparation Plant	F ...Loading Facility and/or Tipple	J ...Exempt 16 and 2/3	
	G ...Stockpiles		

**Small Business Regulatory Enforcement Fairness Act (SBREFA)
Your Comments are Important**

The Small Business and Agriculture Regulatory Enforcement Ombudsman and 10 Regional Fairness Boards were established to receive comments from small businesses about Federal agency enforcement actions. The Ombudsman will annually evaluate the enforcement activities and rate each agency's responsiveness to small business. If you are a small business (a business with 500 or fewer employees including those of affiliates) and wish to comment on the enforcement or compliance activities of OSM, call 1-888-REG-FAIR (1-888-734-3247).

U.S. DEPT. OF THE INTERIOR
OFFICE OF SURFACE MINING
Mine Site Evaluation

Permittee/ Person	CASTLE VALLEY MINING LLC	Permit Number	C0150025	Field Visit Date	5/13/2015	State Program Continuation Page
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28. Performance Standard Categories

Codes: 1=Compliance, 2=Noncompliance, 3=Not Planned, 4=Not Started, 5=Noncompliance Identified Elsewhere, 6=Previously Cited, 7=Permit Defect

<p>A. Administrative</p> <ol style="list-style-type: none"> 1. <u>1</u> Mining within Valid Permit 2. <u> </u> Mining within Bonded Area 3. <u>5</u> Terms & Conditions of Permit 4. <u> </u> Liability Insurance 5. <u> </u> Ownership and Control 6. <u> </u> Temporary Cessation 7. <u> </u> AML Rec. Fees - Non-Respondent 8. <u> </u> AML Rec. Fees - Failure to Pay <p>B. Hydrologic Balance</p> <ol style="list-style-type: none"> 1. <u>5</u> Drainage Control 2. <u> </u> Inspections & Certifications 3. <u> </u> Siltation Structures 4. <u> </u> Discharge Structures 5. <u> </u> Diversions 6. <u> </u> Effluent Limits 7. <u> </u> Ground Water Monitoring 8. <u> </u> Surface Water Monitoring 9. <u> </u> Drainage - Acid-Toxic Materials 10. <u> </u> Impoundments 11. <u>5</u> Stream Buffer Zones <p>C. Topsoil & Subsoil</p> <ol style="list-style-type: none"> 1. <u> </u> Removal 2. <u> </u> Substitute Materials 3. <u> </u> Storage and Protection 4. <u> </u> Redistribution 	<p>D. Backfilling & Grading</p> <ol style="list-style-type: none"> 1. <u> </u> Exposed Openings 2. <u> </u> Contemporaneous Reclamation 3. <u> </u> Approximate Original Contour 4. <u> </u> Highwall Elimination 5. <u> </u> Steep Slopes (includes downslope) 6. <u> </u> Handling of Acid and Toxic Materials 7. <u> </u> Stabilization (rills and gullies) <p>E. Excess Spoil Disposal</p> <ol style="list-style-type: none"> 1. <u> </u> Placement 2. <u> </u> Drainage Control 3. <u> </u> Surface Stabilization 4. <u> </u> Inspections & Certifications <p>F. Coal Mine Waste (Refuse Piles/Impoundments)</p> <ol style="list-style-type: none"> 1. <u>5</u> Drainage Control 2. <u> </u> Surface Stabilization 3. <u> </u> Placement 4. <u> </u> Inspections & Certifications 5. <u> </u> Impounding Structures <p>G. Use of Explosives</p> <ol style="list-style-type: none"> 1. <u> </u> Blaster Certification 2. <u> </u> Distance Prohibitions 3. <u> </u> Blast Survey/Schedule 4. <u> </u> Warnings & Records 5. <u> </u> Control of Adverse Effects 	<p>II. <u> </u> Subsidence Control Plan</p> <p>I. Roads</p> <ol style="list-style-type: none"> 1. <u> </u> Road Construction 2. <u> </u> Certification 3. <u>5</u> Drainage 4. <u> </u> Surfacing and Maintenance 5. <u> </u> Reclamation <p>J. Signs & Markers</p> <ol style="list-style-type: none"> 1. <u>1</u> Signs 2. <u>1</u> Markers <p>K. <u> </u> Distance Prohibitions</p> <p>L. <u> </u> Revegetation</p> <ol style="list-style-type: none"> 1. <u> </u> Vegetative Cover 2. <u> </u> Timing <p>M. <u> </u> Postmining Land Use</p> <p>N. Other</p> <p>General Performance Category</p>
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Performance Standard Categories 30 CFR Counterparts

<p>A. Administrative 773.11</p> <ol style="list-style-type: none"> 1. Valid Permit 773.11 2. Mining within Bonded Area 773.11 3. Terms & Conditions of Permit 773.17 4. Liability Insurance 800.60 5. Ownership and Control 778.13 6. Temporary Cessation 842.11(e) & 816/817.131 7. AML Rec. Fees - Non-Respondent 870.15(b) 8. AML Rec. Fees - Failure to Pay 870.15(a) <p>B. Hydrologic Balance (816/817.41-57)</p> <ol style="list-style-type: none"> 1. Drainage Control 45 2. Inspections & Certifications 49(a)(10) 3. Siltation Structures 46 4. Discharge Structures 47 5. Diversions 43 6. Effluent Limits 42 7. Ground Water Monitoring 41(c) 8. Surface Water Monitoring 41(e) 9. Drainage-Acid-Toxic Materials 41(f) 10. Impoundments 49 11. Stream Buffer Zones 57 <p>C. Topsoil & Subsoil (816/817.22)</p> <ol style="list-style-type: none"> 1. Removal 22(a) 2. Substitute Materials 22(c) 3. Storage and Protection 22(c) 4. Redistribution 22(d) <p>D. Backfilling & Grading 816/817.95-107)</p> <ol style="list-style-type: none"> 1. Exposed Openings 816/817.13, 14, 15, & 823.11 & 21 2. Contemporaneous Reclamation 100 3. Approximate Original Contour 102(a)(1) 4. Highwall Elimination 102(a)(2) 5. Steep Slopes (includes downslope) 107 6. Handling of Acid & Toxic Materials 102(c) 7. Stabilization (rills and gullies) 95(b) 	<p>E. Excess Spoil Disposal (816/817.71-74)</p> <ol style="list-style-type: none"> 1. Placement 71(e) 2. Drainage Control 71(f) 3. Surface Stabilization 71(g) 4. Inspections & Certifications 71(h) <p>F. Coal Mine Waste (Refuse Piles/Impoundments) 816/817.81-84)</p> <ol style="list-style-type: none"> 1. Drainage Control 83(a) 2. Surface Stabilization 83(b) 3. Placement 83(c) 4. Inspections and Certifications 83(d) 5. Impounding Structures 84 <p>G. Use of Explosives (816/817.61-68)</p> <ol style="list-style-type: none"> 1. Blaster Certification 61(c) 2. Distance Prohibitions 61(d) 3. Blast Survey/Schedule 62-64 4. Warnings & Records 66 & 68 5. Control of Adverse Effects 67 <p>H. Subsidence Control Plan (817.121-122)</p> <p>I. Roads (816/817.150-151)</p> <ol style="list-style-type: none"> 1. Road Construction 150(c) 2. Certification 151(a) 3. Drainage 150(b)-151(d) 4. Surfacing and Maintenance 150(e)-151(d) 5. Reclamation 150(f) <p>J. Signs & Markers 816/817.11)</p> <ol style="list-style-type: none"> 1. Signs 11(a),(b),&(c) 2. Markers 11(a),(b),(d),(e),&(f) <p>K. Distance Prohibitions (761.11)</p> <p>L. Revegetation (816/817.111-116)</p> <ol style="list-style-type: none"> 1. Vegetative Cover 111 & 116 2. Timing 113 <p>M. Postmining Land Use (816/817.133)</p>
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Bear Canyon Mine Partial Independent Oversight Inspection Report
Utah Division of Oil, Gas and Mining (DOGGM) Permit ID # C/015/0025

Date:

Wednesday, May 13 10:15 a.m. – 6:00 p.m.

Participants:

Joe Helfrich, Division of Oil, Gas, and Mining (DOGGM)
Jaren Jorgensen, Castle Valley Mining, LLC
Tom Medlin, Office of Surface Mining Reclamation and Enforcement (OSMRE)
Lisa Reinhart, Division of Oil, Gas, and Mining (DOGGM)
Spencer Shumate, OSMRE (Badge #541)

Weather:

Clear, cool, and sunny.

Background:

This was an independent oversight inspection of the Bear Canyon Mine. The inspection began at the mine site office where Jaren Jorgensen provided an overview of the surface disturbance area via permit maps. The field inspection began at approximately 10:45 am and concluded with a closeout discussion at approximately 6:00 pm.

Signs and Markers:

All entrances to the Bear Canyon permit area, displayed proper mine identification signs.

Surface Facilities:

Inspection of the overland conveyer (Portal #3 Area) was missing a side panel. As a result, a significant amount of coal has dumped into the undisturbed drainage flowing to Bear Creek. Appendix 7K and Figure 7K-1 of the approved permit provides specification for construction and maintenance regarding the overland conveyer. See Figure 1, attached.

Hydrologic Balance:

Sediment Pond B

Inspected the pond for stability and functionality. This included the inlet structure, principle spillway, and emergency spillway. Significant erosion to the ponds inlet was observed. Further review of the permit (Appendix 7-F) indicates that Pond B is designed with TWO inlets, one of which shows that grouted riprap will be used. Additionally, the design information found at Appendix 7-F does not account for the corrugated pipe used as the other inlet. Furthermore, there is concern of potential “short-circuiting” as it relates to the close proximity of the principle spillway. See Figure 2 and 3, attached.

Sediment Pond C

Inspected the pond for stability and functionality. This included the inlet structure, principle spillway, and emergency spillway. A paving effect has occurred at the ponds inlet, thus the inlet is not functioning as designed.

Sediment Pond A

Inspected the pond for stability and functionality. This included the inlet structure, principle spillway, and emergency spillway. Significant erosion to the ponds inlet was observed. Further review of the permit (Appendix 7-F) indicates that the pond inlet and cleanout access ramp are “one in the same” and if erosional features develop, they will be maintained. Additionally, it is evident material that has been excavated during pond clean out is being stored on the ponds embankment rather than hauled to the approved sediment pond waste area (*Chapter 7, R645-301-700 Hydrology, and Page 7-104*). See Figure 5 and 6, attached.

Sediment Pond D

Inspected the pond for stability and functionality. This included the inlet structure, principle spillway, and emergency spillway. Significant erosion has created an additional inlet. Appendix 7-F states, in part, that the pond inlet will be protected using grouted riprap. OSMRE notes the pond is not functioning as designed, at the time of inspection. See Figure 7, attached.

ASCA (Approved Sediment Control Alternatives)

The Drainage pipe that crosses under the main haul road (down gradient from Portal #3) has not been maintained nor constructed as designed. Appendix 7-K provides that erosion control matting will be maintained to prevent further erosion. No erosional matting was observed at the time of inspection. As a result, there is significant erosion in this area. See Figure 8 through 16, attached.

Two additional areas of concern were noted along the access road to the East portals. At these locations, it is evident that the ASCA structures have not been maintained in quite some time. As a result, down cutting beneath the ASCA and around the sides were observed. See Figure 17, attached.

While walking down the main haul road from Portal #3 area (just before dumpster location), observation of dried, sludgy mud was identified on the out slope of the road. This material appears to be material that was dumped over the roadside berm while snowplowing the road as part of regular maintenance. Further review of the approved permit (Appendix 7K-12A) provides reference to approved snow storage areas, none of which is where the material was observed. See Figure 18, attached.

Stream Buffer Zone:

OSMRE notes several areas that were marked “Stream Buffer Zone-Do Not Disturb” throughout the permit area. Conversely, the markers were well within the 100ft of mine disturbance that is allowed by R645-301-731.600. Specifically, the disturbance identified within the Stream Buffer Zones included:

1. A wooden structure that appeared to be some sort of “fort” or “hideout”;
2. A mine employee cutting limbs along a footpath with a sawzall;
3. Various non-coal waste items ranging from gear lubricant, coal, pump hoses, metals and a bag of Calcium-Chloride.

Further review of the permit (*Chapter 7, R645-331-731.600 Hydrology, Page 7-61F*) states, that “*Anywhere that mining and reclamation activities are conducted within 100 feet of a perennial*

stream runoff and sediment control structures exist to protect water quality. These areas are designated as "Stream Buffer Zone do not Disturb". See Figures 19 through 22, attached.

Noncoal Waste:

Noncoal waste was observed consistently throughout the inspection of the mine permit area. To be clear, no particular area was considered to be "excessive". Nevertheless, trash items were noted throughout the entire inspection at various areas of the Bear Canyon Mine. Trash was also observed in the Stream Buffer Zones, Sediment ponds A, B, C, and D. See Figures 23- through 26, attached.

Roads:

All haul roads traveled were generally in good repair, with the exception a damaged culvert identified near the junction of the main access road leading to Portal #4 and the primary tippie road. It was noted that the culvert has been exposed and a hole has been breached, thus allowing for deposition of coal fines and sediment to enter the undisturbed Bear Creek drainage.

Enforcement Actions / Programmatic Compliance:

DOGM have issued four Notice of Violation's to the Bear Canyon Mine, dated, June 18, 2015 for non-compliance. The following provides details to each NOV issued:

1. NOV #19151-Failure to maintain inlets to sediment ponds (Rule R645-301-742.123);
2. NOV #19152-Failure to control noncoal waste (Rule R645-301-528.331);
3. NOV #19153-Encroachment of the Stream Buffer Zone (Rule R645-301-731.600);
4. NOV #19154-Failure to maintain support facilities and maintain sediment control structures so as to prevent contribution of suspended solids to the undisturbed drainage (Rules R645-301-521.170, 742.200, 742.423.2, and 742.423.3).

OSMRE recommends a follow-up inspection be conducted in the future to ensure compliance has been achieved through abatement of the aforementioned violations.

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Missing side panel in area over undisturbed drainage. Significant coal has spilled out as a result.

Photo ID: 22221

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: Figure 1

Mine Name: BEAR CANYON



Notes:

Photo ID: 22222

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: Figure 2

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

New inlet formed at Pond B from erosion.

Photo ID: 22223

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: Figure 3

Mine Name: BEAR CANYON



Notes:

Eroded Inlet

Photo ID: 22224

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: Figure 5

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Pond A cleanout material being stockpiled on pond embankment.

Photo ID: 22225

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: **FIGURE 6**

Mine Name: **BEAR CANYON**



Notes:

New inlet forming at Pond D due to erosion.

Photo ID: 22226

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: **FIGURE 7**

Mine Name: **BEAR CANYON**

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

ASCA not maintained.

Photo ID: 22227

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 8

Mine Name: BEAR CANYON



Notes:

ASCA not maintained.

Photo ID: 22228

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 9

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

ASCA not maintained.

Photo ID: 22229

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 10

Mine Name: BEAR CANYON



Notes:

ASCA not maintained.

Photo ID: 22230

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 11

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

ASCA not built as designed or maintained.

Photo ID: 22231

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 12

Mine Name: BEAR CANYON



Notes:

ASCA not maintained.

Photo ID: 22232

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 13

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

ASCA drainage culvert in disrepair.

Photo ID: 22233

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 14

Mine Name: BEAR CANYON



Notes:

ASCA drainage culvert in disrepair.

Photo ID: 22234

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 15

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

ASCA at Portal #4 not designed or maintained. Surface drainage is unable to report to the ASCA due to storage of gravel.

Photo ID: 22235

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: - 110.70194444

Subject: FIGURE 16

Mine Name: BEAR CANYON



Notes:

Eroded roadside drainage near Portal # 3.

Photo ID: 22236

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: - 110.70194444

Subject: FIGURE 17

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Erosion along haulroad near Portal #3.

Photo ID: 22237

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 18

Mine Name: BEAR CANYON



Notes:

Noncoal waste in SBZ.

Photo ID: 22238

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 19

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Noncoal waste in SBZ. NOTE: Discoloration of undisturbed drainage has not been identified yet.

Photo ID: 22239

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 20

Mine Name: BEAR CANYON



Notes:

Mine employee using sawzall to cut limbs in SBZ.

Photo ID: 22240

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 21

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Coal mine waste in undisturbed SBZ.

Photo ID: 22241

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 22

Mine Name: BEAR CANYON



Notes:

Trash in Sediment Pond B.

Photo ID: 22242

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 23

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Trash in Sediment Pond C.

Photo ID: 22243

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 24

Mine Name: BEAR CANYON



Notes:

Trash in Sediment Pond A

Photo ID: 22244

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 25

Mine Name: BEAR CANYON

I&E Inspection Photos

Permit: C0150025 Inspection Date: 5/13/2015

Permittee: CASTLE VALLEY MINING LLC



Notes:

Oil Filter floating in Pond D.

Photo ID: 22245

Photographer: SMJSHUMATE

Date Taken: 5/13/2015

State: UT

County: EMERY

Latitude: 38.99666667

Longitude: -
110.70194444

Subject: FIGURE 26

Mine Name: BEAR CANYON