







CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	July 19, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 07.12.2014 through 07.19.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	-	D	D	D	D	D	D
work Shirts	-	•	-	•	-	-	-
D=Day Shift N	N=Night Shift			W=	Wea	ther	day

Ambier	Ambient Temperature Ranges During Week		ditions During Week:
Highs:	68°F to 72°F	Cloud Cover:	Partly cloudy
Lows:	41°F to 47°F	Precipitation:	Rain - Mon, Tues, Wed, Thurs, Fri, Sat.
		Wind:	Variable

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: Production drilling was performed within the VLF limits.

Production Blasting: One production blast occurred within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A John Deere 850 excavator loaded Cat 777 haul trucks with shot rock from the northeastern cut area of the PSSA below Bench B. Cat dozers were cutting material from the Anaconda Mine Complex and from the Ball Mill crossing area. Material from these areas was transported to the ADR haul road fill between STA 58+00 to 75+00 and upslope of stations J11+00 to J12+00 where it was placed as structural fill by Cat dozers.

Cat dozers were finish grading between Bench DD and Bench FF and the east perimeter road. A Cat vibratory roller compacted the subgrade according to project specifications.



A Cat 312 excavator hammered oversized rock on the upslope of STA B4+00 in the PSSA.

Cat dozers were finish grading and a Cat smooth drum roller compacted subgrade in various areas within PSSA and surrounding Phase 1 slopes.

Cat dozers were cutting material and slope contouring the area around the Anaconda Mine Complex.

Subgrade:

The following subgrade areas in the PSSA were compacted per project specification to finished grade, inspected and certified for soil liner fill (SLF) placement:

No subgrade was accepted during this reporting period. However, previously approved areas were prepared and re-compacted in preparation for SLF placement in the PSSA.

See the attached subgrade acceptance map for all accepted subgrade locations.

Soil Liner Fill (SLF):

No SLF was accepted during this reporting period.

See the attached SLF acceptance map for all accepted locations.

SLF Processing:

Cameron Site: No soil liner fill mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced and remains stockpiled at the Cameron Site for future use. The soil liner fill processing equipment remains at the Cameron site. No new processing occurred during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed on the secondary underdrain.

Tertiary Underdrain: Complete in PSSA footprint.

B) Underground Workings

Confirmatory drilling of the Anaconda Mine Complex began. Additional confirmatory drilling and remediation is required.

Excavation of shot rock on underground working #6318 was completed. Thirty eight cubic yards of concrete was placed to form a 3-foot thick plug in the working. Concrete cylinders were cast for strength testing. Additional remediation is required.

C) Geomembrane:

PSSA

There was no geomembrane installation within the PSSA this week. Minor geomembrane defect repair was performed periodically throughout the work week.

D) Overliner:

• PSSA



Ames continued placing low volume solution collection fill (LVSCF) on approved secondary liner in minimum 3-foot lifts between panels \$10 and \$11, \$34 to \$59, \$69 to \$70, \$152 to \$155, and \$134 to \$164 with a Cat D6 GPS wide pad dozer and a Cat D8 wide pad dozer.

A Cat Skidsteer tapered the LVSCF grade on the 9450' bench between panels S-1 through S-41.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling.
- II) <u>Laboratory Activities:</u> Permeability laboratory testing continued and concrete cylinders were cast for compressive strength testing from underground working #6318.

No new earthwork material sampling occurred during this reporting period.

General Project Items

Meetings and Discussions: Weekly Contractor Meeting – July 17, 2014 (CC&V, AMEC, Ames); ECA daily safety meetings; and Ames daily safety meetings.

Summary of Concerns: None.

CC&V: Daily updates, reporting and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- > Drain cover fill crusher processing continued
- Highway 67 drainage ditch construction

Deliveries: ECA received 36 rolls of 80-mil DSMS geomembrane for Phase 1.

Submitted by: Eric Lorenson	Date: July 21, 2014
Reviewed by: Tim Burkhard Project Resident Phone: 719-689-2986	Date: July 21, 2014
CC&V Projects Approved By:	Date: 7/23/14
Approved By: Sulta Public	Date: 7-23-14



ATTACHMENT A

Name	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	July 13	July 14	July 15	July 16	July 17	July 18	July 19
Tim Burkhard		PR	PR	PR	PR	PR	PR
Andrea Meduna		PE	PE	PE	PE	PE	
Steve Rice		UG	UG	UG			
Ben Melly		GL	GL	GL	GL	GL	GL
Robert Redd		LS	LS		LS	LS	
Tyler Browning					GT	GT	GT
Eric Lorenson		ST	ST	ST	ST	ST	ST
Denis Koval		ST	ST	ST	ST	ST	
Razi Molloy		LT	LT	LT	LT	LT	
Chad Schreiner		GT	GT	GT	GT	GT	
Al Frias		GT	GT	GT	GT	GT	GT
Dylan Budreau		GT	GT	GT	GT	GT	GT
Ashley Thibedeau			GT	GT	GT	GT	GT

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Production drilling along Bench A (9450')



Photo 2: Low volume material placement at the PSSA





Photo 3: ADR haul road: Structural fill in foreground and slope grading in background



Photo 4: Confirmatory Drilling at the Anaconda Mine Complex







e Maps/3 - Low Volume/LVSCF Placement.dwg-7/21/2014 7:52 AM		
LEGEND PLACED LOW VOLUME SOLUTION CO	LECTION FILL	150 0 150 300 FT
CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY PROJECT PREGNANT SOLUTION STORAGE AREA	WEEKLY ACCEPTANCE AREAS	DESIGNED BY RBR CHECKED BY TB DATE DRAWN BY RBR APPROVED BY ALM 7/19/14 CADD FILENAME FIGURE No. REV 1 0



CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	July 26, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 07.20.2014 through 07.26.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	D
Work Shifts	-	-	-	-	-	-	-
D=Day Shift N	N=Night Shift			W=	Wea	ther	day

Ambient Temperature Ranges During Week	Weather Con	ditions During Week:
Highs: 71°F to 77°F	Cloud Cover:	Partly cloudy
Lows: 42°F to 56°F	Precipitation:	Rain: Sun, Wed, Thurs, Fri, Sat.
	Wind:	Variable

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: Production drilling was performed within the VLF limits.

Production Blasting: One production blast occurred within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A John Deere 850 excavator loaded Cat 777 haul trucks with shot rock from the northeastern cut area of the PSSA below Bench B. Cat dozers were cutting material west of the Anaconda Mine Complex and from the Ball Mill crossing area. Material from these areas was transported to the ADR haul road fill between stations 60+00 to 65+00, 70+00 to 80+00, and upslope of stations J12+00 to J14+00 where it was placed as structural fill by Cat dozers. The cut within the PSSA footprint was completed on July 26.



A Cat dozer cut material from above ADR haul road stations 60+00 to 65+00 and pushed it downslope where it was stockpiled for later placement as structural fill. A Cat 928 loader moved material from Bench B to the PSSA toe-berm above the 9450 elevation and placed it as structural fill.

A Cat 330 excavator with a rock hammer broke oversized rock on the subgrade downslope of station A22+00 in the PSSA.

Soil liner fill (SLF) was transported in Cat 740 haul trucks from the Squaw Gulch SLF stockpile to the stockpile area above station DD5+00. SLF was also hauled and placed in areas of the PSSA below stations A16+00 to A18+00.

Cat dozers were finish grading and a Cat smooth drum roller compacted subgrade in various areas within PSSA and surrounding Phase 1 slopes.

A Cat dozer reworked the soil liner fill finished grade downslope of stations A10+00 to A12+00 due to surface water runoff. The area was later reapproved for geomembrane placement.

Cat dozers placed SLF in approximately 18-inch lifts downslope between stations A12+00 to A18+00 and on the ADR haul road from stations 0+00 to 6+00 downslope to the PSSA floor.

Subgrade:

The following subgrade areas in the PSSA were compacted per project specification to finished grade, inspected and certified for soil liner fill (SLF) placement:

- From stations A16+00 to A18+00 to the PSSA floor
- ADR haul road stations 0+00 to 7+00 and the slope below those stations to the PSSA floor

See the attached subgrade acceptance map for all accepted subgrade locations.

Soil Liner Fill:

The following SLF areas in the PSSA were compacted per project specification to finished grade, inspected and certified for geomembrane placement:

- From stations A10+00 to A12+00 to the PSSA floor
- ADR haul road stations 0+00 to 6+00 and the slope below those stations to the PSSA floor
- The southern portion of the PSSA floor

See the attached SLF acceptance map for all accepted locations.

SLF Processing:

Cameron Site: No soil liner fill mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced and remains stockpiled at the Cameron Site for future use. The soil liner fill processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: Approximately 360 lineal feet of underdrain extending from station A21+00 to the PSSA floor was trenched, lined with geofabric, filled with underdrain material, and partially covered with select structural fill. Additional select structural fill placement is required to complete the underdrain. Sample UF-11-R was collected from this area.



Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings

Confirmatory drilling continues at the Anaconda Mine Complex. Additional confirmatory drilling and remediation is required.

Approximately 200 cubic yards of cemented rock fill was placed in underground working #6318. The working was then partially backfilled with structural fill per project technical specifications. Additional remediation is required.

C) Geomembrane:

PSSA

Geomembrane installation continued within the PSSA and included: deployment, seaming, repair, and QA/QC activities. Geomembrane installation was performed on the PSSA floor, PSSA east slope, and PSSA west slope. Approximately 73,509 square feet of 100 mil LLDPE geomembrane was deployed (panels S-220 throughS-239). Subgrade was inspected and approved by AMEC, Ames and ECA representatives prior to geomembrane deployment. Approximately 3,941 linear feet of seam was fusion welded during deployment using one or two fusion welding machines for each day of deployment. Destructive and non-destructive testing was completed per project technical specifications (Destructs 92 through 101).

Secondary liner panels S-186 through S-192, S-205 through S-219, and S-224 through S-233, (secondary 100mil LLDPE – 204,213 ft²) were accepted and approved for low volume placement by AMEC, Ames, and ECA representatives during this reporting period. Additional repairs may be required prior to placement of low volume solution collection fill (ie. wrinkle removal, sub-liner rock repair).

Anchor trench was excavated to approximately station A13+00 on the east side of the PSSA and to station B12+00 on the west. Anchor trench backfilling occurred immediately after liner deployment.

D) Overliner:

• PSSA

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing low volume solution collection fill (LVSCF) on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S12 to S17, S17 to S39, S45 to S59, S65 to S67, S88 to S89, S132 to S145, S152 to S156, S-164 to S165, S191 to 193, S195, S220 to S229, and S205 to S219.

See the attached LVSCF map for all placement locations.

Low volume material was removed and 4-inch-perforated pipe was installed on the liner near panel S201 using a Cat 312E excavator and two laborers.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:



- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; secondary underdrain installation; nuclear moisture and density testing; geomembrane deployment, testing and repair monitoring and certification; subgrade and SLF inspection and certification, drainage ditch grading and concrete placement at the State Highway 67; SLF, DCF, UF, LVSCF, and concrete sampling.
- II) Laboratory Activities: Permeability and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Drain Cover Fill sample numbers DCF- 99 (control sample)
- Low Volume Solution Collection Fill samples, LVSCF 4-R, 5-R, 6-R and 7-R (record samples)
- Underdrain Fill sample number UF 11-R (record sample)
- Soil Liner Fill sample number SLF 17-R (record sample)
- Concrete cylinders were cast for compressive strength testing from drainage ditch adjacent to Highway 67 and the MSE wall.

General Project Items

Meetings and Discussions: Weekly Contractor Meeting – July 23, 2014 (CC&V, AMEC, Ames); ECA daily safety meetings; and Ames daily safety meetings.

Summary of Concerns: None.

CC&V: Daily updates, reporting and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- > Drain cover fill crusher processing continued
- Highway 67 drainage ditch construction

Deliveries: ECA received 12 rolls of 80-mil DSMS geomembrane for Phase 1.

Submitted by: Eric Lorenson	Date: July 29, 2014
Reviewed by:	Date: July 29, 2014
Project Resident Phone: 719-689-2986	
CC&V Projects Approved By: Hot Cont	Date: 8-4-14
Approved By:	Date: 8-4-14



ATTACHMENT A

AMEC - 2014 CQA Field Staff Schedule MLE2

Name	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	July 20	July 21	July 22	July 23	July 24	July 25	July 26
Tim Burkhard		PR	PR	PR	PR	PR	PR
Andrea Meduna				PE			
Steve Rice			UG	UG	UG	UG	UG
Ben Melly	GL						
Robert Redd		LS	LS	LS	LS	LS	
Tyler Browning		GT	GT	GT	GT	GT	GT
Eric Lorenson		ST	ST	ST	ST	ST	
Denis Koval		ST	ST	ST	ST	ST	ST
Razi Molloy		LT	LT	LT	LT	LT	LT
Chad Schreiner	GT						
Al Frias	GT						
Dylan Budreau	GT						
Ashley Thibedeau			GT	GT	GT	GT	GT

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Concrete placement at Highway 67



Photo 2: Low volume material placement at the PSSA





Photo 3: Secondary Underdrain Installation



Photo 4: Fusion welding liner at the PSSA

figure/Subgrade/Weekly Figure Map - Subgrade-dwg-7/30/2014 2:49 PM		
HDCDDND	9476 9500 9525	
APPROVED SUBGRADE		
PROJECT PREGNANT SOLUTION STORAGE AREA	WEEKLY ACCEPTANCE AREAS	DESIGNED BY RBR CHECKED BY TB DRAWN BY RBR APPROVED BY ALM 7 CADD FILENAME MAPP 1









CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	August 2, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 07.27.2014 through 08.02.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D/W	D	D
Work Shifts	-	-	-	-	-	-	-
D=Day Shift N	N=Night Shift			W=	Weath	er da	iy

Ambient Temperature Ranges During Week	Weather Conditions During Week:		
Highs: 45°F to 68°F	Cloud Cover: Overcast to partly cloudy		
Lows: 44°F to 48°F	Precipitation: Rain: Sun, Mon, Tues, Wed, Thurs, Fri, Sat.		
	Wind: Variable		

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1 and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: No production drilling was performed within the VLF limits.

Production Blasting: No production blasting took place within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A John Deere 850 excavator loaded Cat 740 haul trucks with stockpiled structural fill material located at ADR haul road station 60+00. Cat dozers were cutting material west of the Anaconda Mine Complex and from the Ball Mill crossing area. A Cat 345 excavator loaded Cat 740 haul trucks with excess material graded from the ADR haul road near station 12+00. Material from these areas was transported upslope of the ADR haul road between stations 65+00 to 75+00, and upslope of stations J12+00 to J14+00 where it was placed as structural fill by Cat dozers.



A Cat dozer graded the subgrade in the Phase 2 Diversion Channel alignment area east of the Phase 2 pond.

A Cat 345 excavator was shaping the slope from stations H10+00 to H12+00.

Cat dozers placed cut to fill between stations H4+00 to H8+00 downslope to stations F8+00 to F12+00.

A Cat 320 excavator was building berms along Bench DD from DD6+00 to DD8+00.

A Cat 330 excavator with a rock hammer broke oversized rock on the subgrade near station A22+00.

A Cat loader moved material from Bench B to the inboard Phase 1embankment above the 9,450' elevation bench on the south side of the PSSA and placed it as structural fill.

Cat dozers were finish grading and a Cat smooth drum roller compacted subgrade in various areas within PSSA and surrounding Phase 1 slopes.

Soil liner fill (SLF) was transported from the Squaw Gulch SLF stockpile to the stockpile area above station DD5+00 in Phase 1 Area 1. SLF was also hauled and placed in areas of the PSSA below stations A16+00 to A20+00.

A dozer spread SLF downslope of station A16+00 to A20+00. The material was placed in approximately 18-inch lifts and brought to the area in Cat 740 haul trucks that were loaded from the SLF stockpile on the PSSA floor.

Subgrade:

The following subgrade areas in the PSSA were compacted per project technical specifications to finished grade, inspected, and certified for SLF placement:

- > From approximate stations A18+00 to A20+00 to the PSSA floor
- > From approximate ADR road stations 6+00 to 7+00 to the PSSA floor

See the attached subgrade acceptance map for all accepted subgrade locations.

Soil Liner Fill:

The following SLF areas in the PSSA were compacted per project specifications to finished grade, inspected, and certified for geomembrane placement:

From approximate stations B12+00 to B14+00 to the ADR haul road.

See the attached SLF acceptance map for all accepted locations.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced and remains stockpiled at the Cameron Site for future use. The SLF processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: Select structural fill was placed over the remaining portion of the secondary underdrain that was started the previous week located between station A21+00 and



the PSSA floor completed the underdrain in this area. Sample SSF 14-R was collected from this area.

Tertiary Underdrain: Approximately 95 feet of tertiary underdrain was installed above station A4+00.

B) Underground Workings

Confirmatory drilling was completed at the Anaconda Mine Complex at working #UG 6513. The confirmatory holes were grouted at both sites. Additional remediation is required.

Underground workings, UG#6318,UG #U6384, UG #6491, UG #6505, UG#6634, and UG #U6635 were excavated to competent rock, backfilled per project specifications, and are considered remediated.

C) Geomembrane:

PSSA

ECA cut wrinkled liner and made repairs the LSVCS riser pipe trench area. Repairs were vacuum tested.

A 4,620 square-foot, 80-mil rub sheet was placed in the LVSCS riser piping trench.

Geomembrane installation continued within the PSSA and included: deployment, seaming, repair, and QA/QC activities. Geomembrane installation was performed on the PSSA east and west slope. Approximately 44,766 square feet of 100 mil LLDPE geomembrane was deployed (panels S-240 through S-247). Subgrade was inspected and approved by AMEC, Ames and ECA representatives prior to geomembrane deployment. Approximately 2,008 linear feet of seam was fusion welded during deployment using two fusion welding machines for the day of deployment. Destructive and non-destructive testing was completed per project technical specifications (Destructs 102 through 104).

Due to weather conditions throughout the week, no new liner was approved for low volume placement.

Anchor trench was excavated to approximately station A16+00 on the east side of the PSSA and to station B12+00 on the west. Anchor trench backfilling occurred immediately after liner deployment and non-destructive testing was completed.

D) Overliner:

PSSA

Ames staged and thermally fused 18-inch LVSCS riser pipe on the PSSA floor.

A Cat 312 excavator removed the temporary piping on panel S190.

Ames installed a temporary manhole at the closure drain area in the PSSA to collect storm water runoff.

Low volume material was spread over the secondary liner adjacent to the anchor trench using a cat 312 excavator, a skid steer, and labors along the 9450' elevation bench edge next to the ADR pad and along Bench A from stations A0+00 to A5+00.

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.



Ames continued placing low volume solution collection fill (LVSCF) on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S61 to S62; S70 to S76; S81; S94 to S103; S126 to S130; S146 to S150; S187 to S193; S205 to S214; and S220 to S221.

See the attached LVSCF map for all placement locations.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; secondary (PSSA) and tertiary(Phase 1) underdrain installation; nuclear moisture and density testing; geomembrane deployment, testing and repair monitoring and certification; subgrade and SLF inspection and certification; DCF, LVSCF, and SSF sampling.
- **II)** <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- > Drain Cover Fill sample numbers DCF- 100, 101 (control samples)
- Low Volume Solution Collection Fill samples, LVSCF 7A-R, 7B-R, 8-R, 8A-R and 8B-R (record samples)
- Select Structural Fill sample SSF 14-R (record sample)



General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting July 30, 2014 (CC&V, AMEC, Ames)
- > Highway 67 Meeting-July 31, 2014 (CC&V, AMEC, CDOT, Yeh and Associates, Schmidt, Ames)
- CC&V contractor H&S meeting July 31, 2014
- ECA daily safety meetings
- Ames daily safety meetings.

Summary of Concerns: None.

CC&V: Daily updates, reporting and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- > Drain cover fill crusher processing continued
- > Riprap processing continued

Deliveries: None.

Submitted by: Eric Lorenson	Date: August 4, 2014
Reviewed by: Tim Burkhard Project Resident Phone: 719-689-2986	Date: <u>August 4, 2014</u>
CC&V Projects Approved By: Hall	Date: 8/12/14
Approved By:	Date: <u>8 - 12 - 14</u>



ATTACHMENT A

Nome	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	July 27	July 28	July 29	July 30	July 31	Aug. 1	Aug. 2
Tim Burkhard	PR	PR	PR	PR	PR	PR	PR
Steve Rice		UG	UG	UG	UG	UG	UG
Ben Melly	GL	GL	GL	GL	GL	GL	GL
Robert Redd	LS						
Tyler Browning	GT	GL	GT	GT	GT		
Eric Lorenson		ST	ST	ST	ST	ST	ST
Denis Koval	ST	ST	ST	ST	ST		
Razi Molloy	LT	LT	LT	LT	LT	LT	LT
Chad Schreiner	GT	GT					
Al Frias	GT	GT	GT	GT	GT	GT	
Dylan Budreau	GT	GT	GT	GT	GT	GT	GT
Ashley Thibedeau	GT						
Samantha Connor		GT	GT				
Don Conners					PL		
Kristina Babonas					HY		

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

- PL = Project Lead
- PM = Project Manager
- PCE = Project Certifying Engineer
- PE = Project Engineer
- PR = Project Resident
- LG = Lead Geosynthetics Engineer
- LS = Lead Soils Technician
- ST = Soil Technician
- LT = Laboratory Technician
- GL = Geosynthetics Lead
- GT = Geosynthetics Technician
- FLM= Field/Laboratory Manager
- UG = Underground Working Remediation
- SE = Senior Engineer
- GS = Geophysics Survey Geologist
- HY = Highway Design Engineer



Photographs of Activities



Photo 1: Soil Liner Fill placement below Station A18+00



Photo 2: Low volume material placement at the PSSA





Photo 3: Tertiary Underdrain Installation above Station A4+00



Photo 4: Pipe Fusing in the PSSA

faure Subgrade. Weekly. Figure. Map. – Subgrade. Map. – S		
DAWINGS Figures Line Inspection	9475 9500 9525	
APPROVED SUBGRADE		
CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY PROJECT PREGNANT SOLUTION STORAGE AREA	WEEKLY ACCEPTANCE AREAS	DESIGNED BY RBR CHECKED BY TB DRAWN BY RBR APPROVED BY ALM CADD FILENAME CADD FILENAME FIGURE NC ACCEPTANCE MAP 1

Note: <td< th=""><th></th><th></th></td<>		
APPROVED SOIL LINER FILL		150 0 150 300 FT
CLIENT CRIPPLE CREEK & VICTOR MINING COMPANY PROJECT PREGNANT SOLUTION STORAGE AREA	WEEKLY ACCEPTANCE AREAS	DESIGNED BY RBR CHECKED BY TB DATE DRAWN BY RBR APPROVED BY ALM 8/02/14 CADD FILENAME FIGURE No. REV 0






CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	August 09, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 08.03.2014 through 08.09.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	D
Work Shifts	-	•	-	-	-	-	-
D=Day Shift N:	N=Night Shift			W=	Wea	ther	day

Ambient Temperature Ranges During Week	Weather Conditions During Week:
Highs: 71°F to 76°F	Cloud Cover: Overcast to partly cloudy
Lows: 44°F to 55°F	Precipitation: Rain: Sun, Mon, Tues, Wed, Thurs, Fri, Sat.
	Wind: Variable

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1 and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: No production drilling was performed within the VLF limits.

Production Blasting: No production blasting took place within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A Cat loader filled Cat 740 haul trucks with stockpiled structural fill material located at ADR haul road station 60+00. Cat dozers cut material west of the Anaconda Mine Complex and from the Ball Mill crossing area. A Cat excavator loaded Cat 740 haul trucks with excess material graded from the ADR haul road near station 12+00. Material from these areas was transported to and placed as structural fill upslope of the ADR haul road station 65+00, between stations F8+00 to F12+00 upslope to stations H4+00 to H8+00, and upslope of stations J12+00 to J14+00.



A Cat excavator trenched the Phase 2 diversion ditch near station 16+00. The material was loaded into Cat 740 haul trucks and transported east of the Phase 2 where it was stockpiled for later use as structural fill.

A Cat loader moved material from Bench B to the inboard Phase 1 embankment above the 9,450' elevation bench on the south side of the PSSA and placed it as structural fill.

Cat dozers were finish grading and a Cat smooth drum roller compacted subgrade in various areas within PSSA and surrounding Phase 1 slopes.

The Soil liner fill (SLF) surface was scarified downslope from stations A12+00 to A18+00 and on the PSSA floor to allow for drying and reconditioning.

SLF was transported from the Squaw Gulch SLF stockpile to the stockpile area above station DD5+00 in Phase 1 Area 1. SLF was also hauled and placed in the PSSA below stations A15+00 to A22+00.

Subgrade:

The following subgrade areas in the PSSA were compacted per project technical specifications to finished grade, inspected, and certified for SLF placement:

- From approximate stations A18+00 to A22+00 to the PSSA floor
- From approximate ADR road stations 7+00 to 12+00 to the PSSA floor
- From approximate ADR road stations 7+00 to 12+00 to Bench B

See the attached subgrade acceptance map for all accepted subgrade locations.

Soil Liner Fill:

The following SLF areas in the PSSA were compacted per project specifications to finished grade, inspected, and certified for geomembrane placement:

Due to wet weather no new SLF was approved for geomembrane placement during the week. SLF area below A12+00 to A18+00 was re-approved for secondary liner deployment.

See the attached SLF acceptance map for all accepted locations.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced and remains stockpiled at the Cameron Site for future use. The processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain:

Approximately 175 feet of secondary underdrain trench was excavated, lined with geofabric, filled with underdrain fill, and covered with select structural fill from approximate ADR haul road station 15+00 upslope to the existing underdrain below the Ball Mill fill. Both ends of the secondary underdrain were tied into existing underdrain.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings



Confirmatory drilling was completed at working UG #6551. Additional remediation is required.

Previously drilled confirmatory boreholes were grouted at the Anaconda Mine Complex. Additional remediation is required.

Working #6543, found to be a shaft, was excavated to approximately 30 feet. The shaft was backfilled for confirmatory drilling access and drilled. The confirmatory borings were grouted. Additional remediation is required.

Underground workings, UG #U6532, UG #U6533, UG #U6534, UG #6541, and UG #6580 were excavated to competent rock, backfilled per project specifications, and are considered remediated.

Ames started excavating underground working UG #6588. Further remediation is required.

Workings UG #6581 and #6582 were excavated to equipment refusal into hard rock. Drilling access will be provided and additional remediation is required.

C) Geomembrane:

PSSA

Geomembrane installation continued within the PSSA and included: deployment, seaming, repair, and QA/QC activities. Approximately 42,086 square feet of 100-mil LLDPE SSMS (secondary) geomembrane liner was deployed (panels S-248 through S-263). Subgrade was inspected and approved by AMEC, Ames, and ECA representatives prior to geomembrane deployment. Approximately 2,089 linear feet of seam was fusion welded during deployment using two fusion welding machines. Destructive and non-destructive testing was completed per project technical specifications (Destructs 106 through 107).

Due to weather conditions throughout the week, no additional liner was approved for low volume placement.

Anchor trench was excavated to approximately station A17+00 on the east side of the PSSA and to station B12+00 on the west. Anchor trench backfilling occurred immediately after liner deployment and non-destructive testing was completed.

Large rocks were removed from the anchor trench on the PSSA embankment along the 9,450' elevation trench using a mini excavator and/or a Cat excavator with a hammer attachment.

D) Overliner:

PSSA

Low volume material was placed up the slope near the LVSCS riser trench for subsequent 18inch HDPE pipe installation. Three 400-feet long, 18-inch HDPE pipe sections were placed in the LVSCS riser trench.

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing low volume solution collection fill (LVSCF) on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S80 to S85; S90 to S102; S118 to S129; S133 to S141; S146 to S148; S187; S207 to S208; and S211 to S214.

See the attached LVSCF map for all placement locations.



II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; secondary underdrain installation; nuclear moisture and density testing; geomembrane deployment, testing and repair monitoring and certification; subgrade and SLF inspection and certification; DCF, LVSCF, UF and SSF sampling; and Highway 67 ditch construction and striping.
- **II)** <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Drain Cover Fill sample numbers DCF- 102 and 103 (control samples)
- > Low Volume Solution Collection Fill samples, LVSCF 9-R, 10-R, 11-R, and 12-R (record samples)
- > Select Structural Fill sample SSF-15R (record sample)
- > Underdrain Fill UF12-R (record sample)

General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting August 6, 2014 (CC&V, AMEC, Ames)
- CC&V contractor H&S meeting August 7, 2014
- > ECA daily safety meetings
- > Ames daily safety meetings

Summary of Concerns: None.

CC&V: Daily updates, reporting and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- > Drain cover fill crusher processing continued
- The ditch east of the MSE wall and adjacent to Highway 67 was graded and lined with topsoil. Low volume material was placed between the asphalt and the concrete ditch next to the MSE wall and stripe painting occurred on the Highway 67 alignment and overlook parking area.

Deliveries: 60 rolls of 80-mil MSDS were delivered to ECA.

Submitted by: Eric Lorenson	Date: August 12, 2014
Reviewed by: Andrea Meduna Andrea Meduna Project Engineer Phone: 719-689-2986	Date: <u>August 12, 2014</u>
CC&V Projects Approved By:	Date: <u>8/15/14</u>
Approved By: Sutt Pula for	Date: <u>8-15-14</u>



ATTACHMENT A

Neme	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Aug. 3	Aug. 4	Aug. 5	Aug. 6	Aug. 7	Aug. 8	Aug. 9
Tim Burkhard		PR	PR	PR	PR	PR	PR
Steve Rice		UG	UG	UG	UG	UG	UG
Ben Melly	GL	GL		GL	GL	GL	GL
Robert Redd			LS	LS	LS	LS	
Tyler Browning			GT	GT	GT	GT	GT
Eric Lorenson	ST	ST	ST	ST	ST	ST	
Denis Koval		ST	ST	ST	ST	ST	ST
Razi Molloy		LT	LT	LT	LT	LT	LT
Chad Schreiner			GT	GT	GT	GT	GT
Al Frias			GT	GT	GT	GT	GT
Dylan Budreau	GT						
Samantha Connor		GT	GT	GT			
Andrea Meduna				PE			

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Placing the LVSC 18-inch DR11 HDPE pipe in the pipe corridor



Photo 2: Secondary underdrain installation near ADR haul road station 15+00





Photo 3: Paint striping at the Highway 67 overlook.



Photo 4: Placing Low Volume Fill at the PSSA





CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	August 16, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 08.10.2014 through 08.16.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	D
Work Shifts	-	-	-	-	-	-	-
D=Day Shift N	N=Night Shift			W=	Wea	ther	day

Ambient Temperature Ranges During Week	Weather Conditions During Week:
Highs: 73°F to 77°F	Cloud Cover: Partly cloudy to Overcast
Lows: 42°F to 49°F	Precipitation: Rain: Sun, Mon, Tues, Wed, Thurs, Fri, Sat.
	Wind: Variable

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1 and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: Trees were cleared around underground working number UG #6576 to provide access to the working.

Production Drilling: Production drilling occurred along the east perimeter road near stations P6+00 to P10+00 to facilitate trenching for a HDPE waterline.

Production Blasting: No production blasting took place within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A Cat and excavator loader placed material cut from above ADR haul road station 15+00 into Cat 777 and 740 haul trucks. The material was transported to and placed as structural fill upslope of stations J12+00 to J14+00, between stations F8+00 to F12+00 upslope to stations H4+00 to H8+00, and upslope of stations F22+00 to F26+00.

A Cat dozer placed cut to fill between station D4+00 and D8+00.



A Cat excavator trenched the Phase 2 diversion ditch near station 16+00. The material was loaded into Cat 740 haul trucks and transported east of the Phase 2 where it was stockpiled for later use as structural fill.

Cat dozers were finish grading and a Cat smooth drum roller compacted subgrade on the ADR haul road within PSSA and various surrounding Phase 1 slopes.

Soil liner fill was scarified and reconditioned on the PSSA floor and the northeastern PSSA slopes

SLF was transported from the Squaw Gulch SLF stockpile to the stockpile area above station DD5+00 in Phase 1 Area 1. SLF was also hauled and placed in the PSSA below ADR haul road stations 5+00 to 10+00.

A Cat smooth drum roller compacted the SLF surface from Bench A to the PSSA floor between stations A18+00 to A20+00.

Subgrade:

The following subgrade areas in the PSSA were compacted per project technical specifications to finished grade, inspected, and certified for SLF placement:

The subgrade was approved over the ADR haul road from the 9,450 elevation bench to approximately station 7+00 completing the subgrade acceptance within the PSSA footprint.

See the attached subgrade acceptance map for all accepted subgrade locations.

Soil Liner Fill:

The following SLF areas in the PSSA were compacted per project specifications to finished grade, inspected, and certified for geomembrane placement:

- From the intersection of the ADR haul road with Bench B to ADR haul road station 7+00 including the haul road and the slope above the road to Bench B.
- Between approximate ADR haul road stations 3+00 to 7+00 and the central portion of the PSSA floor adjoining previously approved SLF.

See the attached SLF acceptance map for all accepted locations.

Low Volume Solution Collection Fill:

The following Low Volume Solution Collection Fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and certified for primary geomembrane placement:

- > The ADR pad
- > From Bench A to the PSSA floor between stations A0+00 to A4+00.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced to date and remains stockpiled at the Cameron Site for future use. The processing equipment remains at the Cameron site. No new processing was performed during this reporting period.



Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings

Underground workings #6581, #6582, #6583, #6584 #6586, #6587, and #6588 (all shafts) were found to be connected. Confirmatory drilling was started. Additional drilling and remediation is required.

An excavator exposed an adit and a stope in a cut area at underground workings UG #6273 and UG #6461, respectively. Excavation will discontinue until after the cut is removed. The workings may require further remediation and confirmatory drilling.

Underground working UG #6454 was excavated into the slope. Rail tracks were found extending from the slope indicating a potential adit. Portions of the working were backfilled per project technical specifications. Further remediation is required.

Underground workings UG #6459, UG #6549, UG #6550, UG #6577, and UG #6578 were excavated to competent rock, backfilled per project technical specifications, and are considered remediated.

Timbers, concrete, and steel were removed from working UG #6153 and were disposed of. Further remediation is required.

Trees were removed from around working UG #6576 (a timbered shaft) providing access for backfilling. On-site native material meeting the specifications for coarse shaft backfill was placed into the working until the source was depleted. Some pioneering work for confirmatory drilling was done. Further remediation is required.

Underground working #6585 was removed in a cut and is considered remediated.

Ames began excavation of working UG #6635. Additional remediation required.

Geomembrane:

PSSA

Primary 100-mil DSMS LLDPE Liner Installation

Ames used a Bobcat to backfill the anchor trench by placing soil liner fill in a single 12-inch lift and compacted it using a vibratory plate compactor. Anchor trench was backfilled a depth of 12 inches along primary liner panel numbers P-2 through P-66. Sandbags were removed from the anchor trench prior to soil liner fill placement.

ECA continued installing 100-mil LLDPE smooth geomembrane at the PSSA west slope and ADR pad. Panels P-1 through P-66 were deployed. Twenty-eight rolls of 100-mil LLDPE smooth geomembrane were used, yielding 10,217 lineal feet of fusion welds for an approximate installed weekly total of 182,480 square feet. Quality control was performed using up to two extrusion guns. All work performed was observed by AMEC Quality Assurance (QA) personnel and was completed in accordance with project technical specifications.



A total of twenty fusion and one extrusion destructive samples were marked and tested, they include PDF-1 through PDF-20 and PDX-1. All destructive samples passed per project technical specifications.

Secondary 100-mil SSMS LLDPE Liner Installation

A Cat mini excavator was used to excavate anchor trench at the northern and eastern sides PSSA slope. Depth and width were verified during excavation prior to liner installation.

Ames used a Bobcat to backfill the anchor trench with structural fill material placed in a single 12-inch lift and compacted using a vibratory plate compactor. Anchor trench was along secondary liner panel numbers S-262 through S-301. Sandbags were removed from the anchor trench prior to structural fill placement.

ECA continued installing 100-mil LLDPE SSMS geomembrane at the PSSA eastern, western, and northern slopes and on the central floor. Panels S-264 through S-306 were deployed throughout the week. Thirty two rolls of 100-mil LLDPE SSMS geomembrane were deployed yielding 9,804 lineal feet of fusion welds for an approximate installed weekly total of 143,595 square feet. Quality control was performed using up to two extrusion guns. All work performed was observed by AMEC Quality Assurance (QA) personnel and was completed in accordance with project technical specifications.

A total of eighteen fusion destructive samples were marked and tested, they include DF-110 through DF-128. All destruct samples tested passed per project technical specifications.

C) Overliner:

PSSA

Ames fused three sections of 18-inch pipe on the LVSCS, repositioned the LVSCS manifold into the LVSCS riser piping trench, and fused it to the sections of the LVSCS riser pipe. The manifold and riser pipe were placed above secondary liner and a rub sheet per design.

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing LVSCF on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S-106 to S-109; S-127 to S-129; S-147 to S-149; S-151 to S-153; S-157; S-187 to S-193; S-205 to S-209; S-217 to S-219, S-244 to S-247, and S-276 to S-301.

See the attached LVSCF map for all placement locations.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; nuclear moisture and density testing; depth verification testing; geomembrane deployment, testing and repair monitoring and certification; subgrade and SLF inspection and certification; and LVSCF acceptance for primary liner deployment. DCF, LVSCF, SLF sampling; and Highway 67 striping and ditch work.



II) <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- > Drain Cover Fill sample DCF-104 (control sample)
- Low Volume Solution Collection Fill sample LVSCF 13-R (record sample)
- > Soil Liner Fill samples SLF-18R and 19-R (record samples)

General Project Items

Meetings and Discussions:

- > Weekly Contractor Meeting-August 13, 2014 (CC&V, AMEC, Ames)
- Highway 67 embankment meeting-August 13, 2014 (CC&V, AMEC)
- > CC&V contractor Heath and Safety meeting August 14, 2014
- > ECA daily safety meetings
- > Ames daily safety meetings

Summary of Concerns: None.

CC&V: Daily updates, reporting, and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- > Drain cover fill crusher processing continued
- > Riprap processing resumed
- > The ditch east of the MSE wall and adjacent to Highway 67 was graded and lined with topsoil
- > Stripe painting occurred on the Highway 67 alignment and overlook parking area

Deliveries: None.

Submitted	by:	Eric	Lorenson
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Reviewed by:	Meduna
Andrea Meduna	
Droject Engineer	

Project Engineer Phone: 719-689-2986

CC&V Projects Approved By:	R	De	Inte	
-		(

Approved By: Surth Reduch

Deter	8/22/14	
Date:	0122114	

Date: August 20, 2014

Date: August 20, 2014

Date: 8-22-14



ATTACHMENT A

Nome	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Aug. 10	Aug. 11	Aug. 12	Aug. 13	Aug. 14	Aug. 15	Aug. 16
Tim Burkhard	PR						
Steve Rice		UG	UG	UG			
Ben Melly	GL						
Robert Redd	LS						
Tyler Browning	GT						
Eric Lorenson		PR	PR	PR	PR	PR	PR
Denis Koval	ST						
Razi Molloy		LT	LT	LT	LT	LT	
Chad Schreiner	GT	GT	GT	GT	GT		
Al Frias	GT						
Dylan Budreau	GT	GT	GT				
Rick Buxton							GT
Ashley Thibedeau		GT	GT	GT	GT	GT	GT
Andrea Meduna			PE	PE	PE		

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Destructive Testing for Geomembrane



Photo 2: Vacuum Testing





Photo 3: Fusing the LVSCS Manifold to the Riser Piping



Photo 4: Placing Low Volume Fill at the PSSA











CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	August 23, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 08.17.2014 through 08.23.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	-	D	D	D	D	D	D
work Shifts	-	•	-	•	•	-	-
D=Day Shift N	N=Night Shift			W=	Wea	ther	day

Ambient T	emperature Ranges During Week	Weather Conditions During Week:			
Highs: 6	3°F to 73°F		Partly cloudy to Overcast		
Lows: 42	2⁰F to 43⁰F	Precipitation:	Rain: Tues, Wed, Fri,		
		Wind:	Variable		

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1 and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: Production drilling occurred along the perimeter road near stations P4+00 to P10+00 to facilitate trenching for a HDPE waterline.

Production Blasting: Production blasting took place within the VLF along the perimeter road near stations P6+00 to P10+00.

Structural Fill:

All structural fill material discussed below was placed and compacted per the technical specifications.

A Cat and excavator loader placed material cut from above ADR haul road station 15+00 into Cat 777 and 740 haul trucks. The material was transported to and placed as structural fill at ADR road Stations 20+00 to 25+00 and upslope of stations J12+00 to J14+00.



Material cut upslope from stations A16+00 to A21+00 was loaded into Cat 740 haul trucks and transported to ADR haul road stations 20+00 to 25+00. Some of the material was also hauled upslope of stations D0+00 to D2+00. The material was placed as structural fill.

An excavator removed material from upslope of station D10+00 and loaded it into Cat 740 trucks. The material was hauled to stations F24+00 to F26+00 where it was placed as structural fill. Furthermore, two dozers pushed material downslope to the fill area at stations F24+00 to F26+00 from stations H18+00 to H20+00.

The Phase 2 Diversion Channel was compacted with a smooth drum roller and prepared for geofabric and riprap placement east of the Phase 2 pond.

Subgrade:

All subgrade areas in the PSSA footprint have been certified for SLF placement per project technical specifications.

The subgrade was inspected and certified below stations F0+00 to F10+00 in the Phase 1 area.

Soil Liner Fill:

The following SLF areas in the PSSA were compacted per project specifications to finished grade, inspected, and certified for geomembrane placement:

- Between approximate ADR haul road stations 3+00 to 7+00 and the central portion of the PSSA floor adjoining previously approved SLF (reapproved).
- Between approximate ADR haul road stations 7+00 to 10+00 and the northern portion of the PSSA floor adjoining previously approved SLF.

Soil liner fill was reconditioned on the PSSA floor and the northern PSSA slopes.

A Cat smooth drum roller compacted the SLF surface from Bench A to the PSSA floor between stations A20+00 to A22+00.

Ames cut through a small area of secondary liner to expose and cap the temporary embankment drain on the south side of the PSSA. After the underdrain was capped, SLF was placed and compacted in the drain repair area and the liner was repaired. All work performed was observed by AMEC QA personnel and was completed in accordance with project technical specifications.

See the attached SLF acceptance map for all accepted locations.

Low Volume Solution Collection Fill:

The following Low Volume Solution Collection Fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and certified for primary geomembrane placement:

> No low volume fill was certified for geomembrane placement during this reporting period.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:



Cameron Site: No SLF mining or processing occurred at the Cameron Site. Approximately 244,860 tons of SLF material has been produced to date and remains stockpiled at the Cameron Site for future use. The processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings

Underground workings #6581, #6582, #6583, #6584 #6586, #6587, and #6588 (all shafts) were found to be connected. Confirmatory drilling continued. Additional remediation is required.

Underground workings UG #U6637 and UG #U6638 were blasted, excavated, backfilled per project technical specifications, and are considered remediated. These underground workings were blasted in conjuction with the production blasting for the waterline.

Confirmatory drilling occurred at underground workings UG #U6461, UG #U6462, and UG #U6639. Additional remediation is required.

Underground workings UG #U6551 and UG #U6543 were prepared for concrete plugs. Additional remediation is required.

UG #U6633 was excavated 10 feet to competent rock. Further remediation is required.

Ames placed an additional 383 cubic yards of coarse shaft backfill in underground working UG #U6153. Additional remediation is required.

Underground working UG #6632 was excavated to competent rock, backfilled per project technical specifications, and are considered remediated.

Geomembrane:

PSSA

Primary 100-mil DSMS LLDPE Liner Installation

Soil liner fill was used to backfill over the primary liner in the anchor trench located in the southeast corner of the ADR platform. The backfill was placed and compacted per project technical specifications.

ECA continued performing quality control using one extrusion gun at the ADR pad platform. All work performed was observed by AMEC Quality Assurance (QA) personnel and was completed in accordance with project technical specifications.

Secondary 100-mil SSMS LLDPE Liner Installation

ECA continued installing 100-mil LLDPE SSMS geomembrane at the PSSA eastern, western, northern slopes and northern floor. Panels S-307 through S-350 were deployed during the week. Panels S-215 through S-219, S-244 through S-247 and S-276 through S-291 were fully deployed from the ADR haul road towards the PSSA floor. Fourteen full rolls and multiple partial rolls of 100-mil LLDPE SSMS geomembrane were deployed yielding 8,588 lineal feet of fusion welds for an approximate installed weekly total of 154,274 square feet. Quality control was performed using up to two extrusion guns. ECA performed a large cap repair over the temporary drain line



abandonment area on approved SLF finished grade. All work performed was observed by AMEC QA personnel and was completed in accordance with project technical specifications.

A total of 17 fusion destructive samples were marked and tested, they include DF-126 through DF-142. All destruct samples tested passed per project technical specifications.

C) Overliner:

PSSA

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing LVSCF on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S-105 to S-112; S-120 to S-130; S-205 to S-206; S-218 to S-219; S-244 to S-245; S-276 to S-293.

Low volume material was also feathered out at the crest of the secondary liner at the 9,450 elevation with a Cat 312 mini excavator and laborers across panels S-106, S-117 to S-124, and S-131 to S-143.

See the attached LVSCF map for all placement locations.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; nuclear moisture and density testing; depth verification testing; geomembrane deployment, testing and repair monitoring and certification; subgrade and SLF inspection and certification; and LVSCF acceptance for primary liner deployment. DCF, LVSCF, SF sampling; and Highway 67 striping and ditch work.
- II) <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Drain Cover Fill samples DCF-105 and 106 (control sample)
- Low Volume Solution Collection Fill sample LVSCF 14-R (record sample)
- Structural Fill samples SF 93-R and 94-R (record samples)

General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting August 20, 2014 (CC&V, AMEC, Ames)
- Highway 67 embankment meeting August 20, 2014 (CC&V, AMEC)
- CC&V contractor Heath and Safety meeting August 21, 2014
- ECA daily safety meetings
- Ames daily safety meetings

Summary of Concerns: None.

CC&V: Daily updates, reporting, and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

> Drain cover fill crusher processing continued



- Riprap processing resumed
- > Slope grading occurred adjacent to Highway 67 between the MSE wall and the PSSA
- Boulders were placed at the ends on both sides of the timbered façade MSE wall for protection.
- Surface drainage channels above both ends of the MSE were graded, lined with geotextile, and then lined with riprap
- The ditch adjacent to Highway 67 between the MSE wall and the PSSA was realigned, lined with geotextile, and then lined with riprap

Deliveries: 36 rolls of 80-mil LLDPE geomembrane DSMS liner was delivered to ECA.

Submitted by: Eric Lorenson	Date: August 27, 2014
Reviewed by: for the second se	Date: <u>August 27, 2014</u>
CC&V Projects Approved By: Act Cont	Date: 3/5/14

Approved By: Just Redach

Date: 9 - 9 - 14



ATTACHMENT A

AMEC - 2014 CQA Field Staff Schedule MLE2

Name	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Aug. 17	Aug. 18	Aug. 19	Aug. 20	Aug. 21	Aug. 22	Aug. 23
Tim Burkhard							
Steve Rice		UG	UG	UG	UG		
Ben Melly			GL	GL	GL	GL	GL
Robert Redd		LS	LS		LS	LS	LS
Tyler Browning	GT						
Eric Lorenson		PR	PR	PR	PR	PR	PR
Denis Koval		ST	ST	ST	ST	ST	ST
Razi Molloy		LT	LT	LT	LT	LT	LT
Chad Schreiner		GT	GT	GT	GT	GT	
Al Frias		GT	GT	GT	GT	GT	GT
Rick Buxton		GT	GT	GT	GT	GT	GT
Ashley Thibedeau		GT	GT	GT	GT	GT	GT
Andrea Meduna				PE	PE		

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: North MSE Wall Construction



Photo 2: North MSE Wall Construction.





Photo 3: Pulling Back Liner in the Northwest PSSA Corner for SLF Reconditioning



Photo 4: Low Volume Fill Placement at the PSSA floor











CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	August 30, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 08.24.2014 through 08.30.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	-
Work Shifts				-	-	-	-
D=Day Shift N:	N=Night Shift			W=	Wea	ther	day

Ambient Temperature Ranges During Week	Weather Conditions During Week:			
Highs: 68°F to 74°F		Partly cloudy to overcast		
Lows: $42^{\circ}F$ to $48^{\circ}F$	Precipitation:	Rain: Mon., Tues., Wed., Thurs., and Fri.		
	Wind:	Variable		

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1 and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: Production drilling occurred in the VLF.

Production Blasting: Production blasting occurred within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the project technical specifications.

An excavator loaded Cat 740 haul trucks with material from above station A22+00 and from station D11+50. The material was transported to stations F22+00 to F26+00 and was placed as structural fill.

Two dozers and an excavator performed slope re-contouring and rough grading below the Midway area, above stations H0+00 to H2+00 and bermed the ADR haul road.

A D8 dozer placed cut to fill near station F20+00.



Subgrade:

All subgrade areas in the PSSA footprint have been certified for soil liner fill (SLF) placement per project technical specifications.

Two dozers were slope grading subgrade downslope of the south perimeter road stations P4+00 to P8+00 in the Phase 1 area.

Soil Liner Fill:

The following soil liner fill (SLF) areas in the PSSA were compacted per project technical specifications to finished grade, inspected, and certified for geomembrane placement:

Between approximate stations A18+00 to A22+00 and the PSSA floor adjoining previously approved SLF. This completes SLF surfaces approvals within the PSSA footprint.

See the attached SLF acceptance map for all accepted locations.

Excess SLF was cut and regraded in the northeast corner of the PSSA below station A21+00. The excess SLF was hauled to the stockpile above station DD5+00.

Cat 777 haul trucks transported soil liner fill from the stockpile near Dump 4 and from the Cameron processing location to an area below stations F0+00 to F10+00 where it was stockpiled for future use for Phase 1.

Low Volume Solution Collection Fill:

The following Low Volume Solution Collection Fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and certified for primary geomembrane placement:

> The western half of the PSSA southern embankment.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. However, Ames began transporting the Cameron stockpiled SLF to a new stockpile located below stations F0+00 to F10+00 in the Phase 1 area. The processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings

Underground workings UG #6639, UG #6640, and UG #6461 were blasted in conjunction with production cut blasting. Additional remediation is required.

Confirmatory drilling occurred at underground workings UG #6461 and UG #6639. Additional remediation is required.



Geomembrane:

PSSA

Primary 100-mil DSMS LLDPE Liner Installation

ECA installed 100-mil LLDPE smooth geomembrane grade at the west slope of PSSA from the ADR platform to the PSSA floor. Panels P-67 through P-87 were deployed on approved LVSCF. Sixteen full rolls and multiple partial rolls of 100-mil LLDPE smooth geomembrane were deployed yielding 4,466 lineal feet of fusion welds for an approximate installed weekly total of 114,480 square feet. Quality control was performed using one extrusion gun. All seams were fusion welded per project technical specifications. All work performed was observed by AMEC Quality Assurance (QA) personnel.

Destructive samples PDF-21 through PDF-31were marked; destructive samples PDF-21 through PDF-26 were pulled and tested, all destructive samples that were tested passed per project technical specifications.

Secondary 100-mil SSMS LLDPE Liner Installation

A Cat mini excavator was used to excavate anchor trench at the north to northeast and northeast PSSA slopes. Anchor trench excavation met anchor trench project requirements. Depth and width were verified during excavation. Anchor trench was subsequently backfilled and compacted with a maximum of 1-foot compacted depth above geomembrane that had been tested non-destructively.

ECA continued installing 100-mil LLDPE SSMS geomembrane at the PSSA west and north slopes and the northern portion of the PSSA floor. Panels S-351 through S-360 were deployed during the week. Fifteen full rolls and multiple partial rolls of 100-mil LLDPE SSMS geomembrane were deployed yielding 7,484 lineal feet of fusion welds for an approximate installed weekly total of 139,888 square feet. Quality control was performed using up to two extrusion guns. All work performed was observed by AMEC Quality Assurance (QA) personnel and was completed in accordance with project technical specifications.

Destructive samples DF-143 through DF-160 were marked; destructive samples DF-143 through DF-149, DF151, DF-152, DF-156, DF-157, DF-158 and DF-160 were tested and passed per project technical specifications. Destructive samples DF-153, DF-154, DF-155 and DF-159 were marked but not tested. Destructive sample DF-150 was tested and did not meet minimum project technical specifications. DF-150A and DF-150B were marked and will be tested after the destructive samples are removed from the geomembrane.

C) Overliner:

PSSA

Cat 740 trucks hauled low volume solution collection fill (LVSCF) to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing LVSCF on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S-101 to S-108; S-120 to S-130; S-164 to S-168; S-189 to S-198; S-205 to S-206; S-218 to S-219; S-244 to S-247; S-276 to S-278; S-282 to S-283; S-302 to S-311; S-312 to S-317; and S-339 to S-349.

See the attached LVSCF map for all placement locations.



II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; nuclear moisture and density testing; depth verification testing; geomembrane deployment, testing and repair monitoring and certification; SLF inspection and certification; and LVSCF acceptance for primary liner deployment. LVSCF sampling; and Highway 67 ditch work.
- II) <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Low Volume Solution Collection Fill sample LVSCF 84, 85, and 86 (control samples)
- > Concrete cylinders were cast from the pour at the ditch adjacent to the MSE wall and Hwy 67

General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting August 27, 2014 (CC&V, AMEC, Ames)
- CC&V contractor Safety meeting August 28, 2014
- ECA daily safety meetings
- Ames daily safety meetings

Summary of Concerns: None.

CC&V: Daily updates, reporting, and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- Drain cover fill processing was discontinued and low volume fill processing resumed.
- Slope grading and topsoil placement occurred adjacent to Highway 67 between the MSE wall and the PSSA
- Concrete was poured at the surface drainage channel at both ends of the MSE wall and at drainage inlet at the Hwy 67 overlook area.
- The metal strapping and caging behind the MSE wall timber façade were stained
- Closure and abandonment of the 14-inch HDPE temporary drainage pipe using an electro-fusion cap on the pipe on the downstream side of the PSSA embankment.

Deliveries: 24 rolls of 80-mil LLDPE geomembrane DSMS liner was delivered to ECA.

Submitted by: Eric Lorenson Reviewed by: Andrea Meduna

Andrea Meduna Project Engineer Phone: 719-689-2986

CC&V Projects Approved By:

Date: August 27, 2014

Date: August 27, 2014

Date: 9/9/14
Approved By: Scott Rudsolah





ATTACHMENT A

Nome	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Aug. 24	Aug. 25	Aug. 26	Aug. 27	Aug. 28	Aug. 29	Aug. 30
Tim Burkhard		PR	PR	PR	PR	PR	
Steve Rice			UG	UG	UG	UG	
Ben Melly	GL	GL	GL	GL	GL	GL	
Robert Redd		LS	LS	LS	LS	LS	
Tyler Browning	GT	GT	GT	GT	GT	GT	
Eric Lorenson		ST	ST	ST	ST	ST	
Denis Koval		ST	ST	ST	ST	ST	
Razi Molloy		LT	LT	LT	LT	LT	
Chad Schreiner			GT	GT	GT	GT	
AI Frias	GT	GT	GT	GT	GT	GT	
Rick Buxton	GT	GT	GT	GT			
Ashley Thibedeau	GT	GT	GT				
Mel Ford		GT	GT	GT	GT	GT	
Andrea Meduna				PE			

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Low Volume Fill Placement



Photo 2: Topsoil Placement adjacent to Hwy 67 between the MSE Wall and the PSSA





Photo 3: Underground Working #6639 After Blasting



Photo 4: Concrete Pour at the Victor Side MSE Wall Ditch



CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	September 6, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 08.31.2014 through 09.06.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	-	Н	D	D	D	D	D-
work Shifts	-	-	-	•	•	-	-
D=Day Shift N	N=Night Shift			H=	Hollic	day	

Ambient Temperature Ranges During Week	Weather Conditions During Week:			
Highs: 65°F to 77°F		Partly cloudy to overcast		
Lows: 42°F to 49°F	Precipitation:	Rain: Friday and Saturday		
	Wind:	Variable		

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1, and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: Production drilling occurred in the VLF.

Production Blasting: No production blasting occurred within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the project technical specifications unless otherwise stated.

A dozer performed cut and slope re-grading below the ADR road near Bench H stations H12+00 to H14+00. Excess material was loaded by a Cat 345 and hauled to the buttress fill and butt dumped. No lift placement or compaction occurred.

A Cat dozer was observed performing slope grading below the Phase 2 diversion channel east of the Phase 2 sedimentation pond.



Unsuitable material from the former Highway 67 was removed from the subgrade upslope of Bench B stations B0+00 to B2+00 in the Phase 1 area. The material was replaced with structural fill per project specifications.

Subgrade:

Two dozers continued slope grading the subgrade downslope of Bench D stations DD4+00 to DD16+00 in the Phase 1 area while a Cat hammer hoe broke oversized rock in the subgrade surface. Portions of the subgrade in this area were compacted with a smooth drum roller.

Soil Liner Fill:

Cat 777 haul trucks transported SLF from the Cameron stockpile to a location below Bench F stations F0+00 to F10+00 in the Phase 1 area on approved subgrade where it was stockpiled for future use.

Low Volume Solution Collection Fill:

The following low volume solution collection fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and approved for primary geomembrane placement:

- From the ADR haul road to Bench B between approximate stations B6+00 to B12+00.
- From Bench A to the PSSA floor between approximate stations A5+00 to A7+00.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. However, Ames continued transporting the Cameron stockpiled SLF to a new stockpile located below Bench F stations F0+00 to F10+00 in the Phase 1 area. The processing equipment remains at the Cameron site. No new processing was performed during this reporting period.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings

Confirmatory drilling occurred at underground workings #UG6200, UG #6429, #UG6313, and UG #6639. Additional remediation is required.

A dozer and an excavator prepared working UG #6543 for geogrid placement. Further remediation is required.

Geomembrane:

PSSA

Primary 100-mil DSMS LLDPE Liner Installation

ECA installed 100-mil LLDPE smooth geomembrane at the west slope of PSSA from the ADR platform to the PSSA floor and south slope from the 9450-foot bench to the closure drain. Panels P-88 through P-143 were deployed on approved LVSCF. Seventeen full rolls and multiple partial rolls of 100-mil LLDPE smooth geomembrane were deployed yielding 6,967 lineal feet of fusion welds for an approximate installed weekly total of 131,400 square feet. Quality control was



performed using one or two extrusion guns. All seams were fusion welded per project technical specifications. All work performed was observed by AMEC Quality Assurance (QA) personnel.

Approximately 720 lineal feet of anchor trench was backfilled over primary liner.

Destructive samples PDF-32 through PDF-46 were marked for testing. PDF-30, PDF-31, PDF-34, and PDF-35 were tested and passed per project technical specifications.

Secondary 100-mil SSMS LLDPE Liner Installation

Quality control was completed for the secondary geomembrane. All secondary liner was approved for low volume placement.

C) Overliner:

PSSA

Cat 740 trucks hauled LVSCF to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing LVSCF on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S-143 to S-145; S-165 to S-167; S-169 to S-174; S-186 to S190; S-196 to S-198; S-215 to S-219; S-240 to S-241; S-244 to S-247; S-276 to S301; S-315 to S-321; and S-350 to S-352.

See the attached LVSCF map for all placement locations.

II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; nuclear moisture and density testing; depth verification testing; geomembrane deployment, testing, and repair monitoring and certification; SLF inspection and certification; and LVSCF acceptance for primary liner deployment. LVSCF sampling; and Highway 67 slope grading, topsoil placement, and asphalt patching work.
- **II)** <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Low Volume Solution Collection Fill samples LVSCF 87 (control sample)
- Low Volume Solution Collection Fill samples LVSCF 15-R through 25-R (Record samples)

General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting September 3, 2014 (CC&V, AMEC, Ames)
- ECA daily safety meetings
- Ames daily safety meetings

Summary of Concerns: None.

CC&V: Daily updates, reporting, and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.



Miscellaneous:

- Low volume solution collection fill processing continued.
- Slope grading and topsoil placement occurred adjacent to HWY 67 between the MSE wall and the PSSA.
- Forms were removed from the HWY 67 concrete ditch adjacent to the MSE wall and the surface drain in the overlook parking area.
- > Asphalt patching adjacent to the concrete ditch and MSE wall on HWY 67 occurred.

Deliveries:

- 48 rolls of 80-mil LLDPE geomembrane DSMS liner was delivered to ECA.
- Ames received HVSCS piping and staged it at the laydown yard west of the crusher.

Submitted by: Eric Lorenson	Date: September 11, 2014
Reviewed by: Tim Burkhard Project Resident Phone: 719-689-2986	Date: September 11, 2014
CC&V Projects Approved By:	Date: <u>9/16/14</u>
Approved By: Swith Rulam	Date: 9-17-14



ATTACHMENT A

AMEC - 2014 CQA Field Staff Schedule MLE2

Name	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Aug. 31	Sept. 1	Sept. 2	Sept. 3	Sept. 4	Sept. 5	Sept. 6
Tim Burkhard			PR	PR	PR	PR	PR
Steve Rice							
Ben Melly			GL	GL	GL	GL	GL
Robert Redd			LS	LS	LS	LS	
Tyler Browning							GT
Eric Lorenson			ST	ST	ST	ST	ST
Denis Koval			ST	ST	ST	ST	
Razi Molloy			LT	LT		LT	LT
Chad Schreiner				GT	GT	GT	GT
Al Frias				GT	GT	GT	
Rick Buxton				ST	ST	ST	ST
Mel Ford			ST	ST	ST	ST	ST
Nick Anderson			ST	ST	ST	ST	ST
Andrea Meduna				PE			

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Asphalt Patching at HWY 67



Photo 2: Topsoil Placement adjacent to Hwy 67 between the MSE Wall and the PSSA





Photo 3: Stockpiling SLF below Stations F0+00 to F10+00



Photo 4: PSSA Overview







CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	September 13, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 09.7.2014 through 09.13.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	D
work Shifts	-	Ν	Ν	Ν	Ν	Ν	-N
D=Day Shift N	N=Night Shift			H=	Hollic	day	

Ambient Temperature Ranges Duri	ng Week Weather Con	ditions During Week:
Highs: 54°F to 71°F	Cloud Cover:	Partly cloudy to overcast
Lows: 28°F to 46°F	Precipitation	Rain: Sun., Mon., Tue., Wed., Fri.
	Wind:	Variable

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1, and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: No production drilling occurred in the VLF.

Production Blasting: Production blasting occurred within the VLF near underground working UG# 6639.

Structural Fill:

All structural fill material discussed below was placed and compacted per the project technical specifications unless otherwise stated. An AMEC Quality Assurance (QA) professional monitored material temperatures placed within fill areas. Average structural fill temperatures were above 32°F.

Stockpiled cut material was hauled from ADR road station 15+00 to an area upslope of Bench A station A15+00. The material was placed as structural fill in approximately 3-foot lifts and was compacted.

Ames cut material from Bench B and placed it as structural fill on the northeast temporary access



road above the ADR haul road turn around area.

A Cat dozer was shaping the slope below ADR haul road stations 55+00 to 65+00.

Excess cut from slope grading activities was transported to Bench F between stations F12+00 to F15+00, placed as structural fill, and compacted.

A Cat dozer and excavator removed excess material cut upslope from Bench H between stations H8+00 to H13+00 to the ADR haul route. The material was transported to the Squaw Gulch buttress fill adjacent to Bench J between stations J10+00 to J15+00 and was placed as structural fill and compacted.

Subgrade:

Two dozers continued slope grading the subgrade downslope of Bench DD between stations DD4+00 to DD8+00 in the Phase 1 area while a Cat hammer hoe broke oversized rock in the subgrade surface. Portions of the subgrade in this area were compacted with a smooth drum roller.

The subgrade was certified for SLF placement from 10 feet upslope of Bench B to Bench DD between approximate stations B0+00 to B8+00.

Soil Liner Fill:

Cat 777 haul trucks transported SLF from the Cameron stockpile to a location below Bench F between stations F0+00 to F10+00 in the Phase 1 area on approved subgrade where it was stockpiled for future use.

Soil liner fill (SLF) was transported from the Phase 1 stockpile located below Bench F between stations F0+00 to F10+00 and was placed along Bench DD from stations DD4+00 to DD10+00.

Low Volume Solution Collection Fill:

The following low volume solution collection fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and approved for primary geomembrane placement:

The ADR haul road (within the PSSA) and on the southern and central PSSA floor and slopes.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. However, Ames continued transporting the Cameron stockpiled SLF to a new stockpile located below Bench F between stations F0+00 to F10+00 in the Phase 1 area. The processing equipment remains at the Cameron site.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.



B) Underground Workings:

Confirmatory drilling occurred at underground workings UG #6576 and UG #6588. Additional remediation is required.

A dozer finished preparing working UG #6543 for geogrid placement. Two layers of geogrid and select structural fill were placed over the working. A select structural fill sample was collected from this location. The working is considered remediated.

Underground working UG#6639 was blasted in association with production blasting. Further remediation is required.

An excavator removed material from underground working UG#6641 to competent rock and backfilled the working per project specification. The working is considered remediated.

C) Geomembrane:

PSSA

Primary 100-mil DSMS LLDPE Liner Installation

ECA installed 100-mil LLDPE smooth geomembrane at the east slope of PSSA from the 9,450' elevation bench to the PSSA floor. Panels P-144 through P-213 were deployed on approved LVSCF. Fifty full rolls and multiple partial rolls of 100-mil LLDPE smooth geomembrane were deployed yielding 17,968 lineal feet of fusion welds for an approximate installed weekly total of 328,174 square feet. Quality control was performed using two extrusion guns. All seams were fusion welded per project technical specifications. All work performed was observed by AMEC QA personnel.

Approximately 1,460 lineal feet of anchor trench was backfilled over primary liner and compacted per project specifications.

Destructive samples PDX-2 and PDF-47 through PDF-80 were marked for testing. PDF-28, PDF-29, PDF-32, PDF-33, and PDF-36 through PDF-78 were tested and passed per project technical specifications.

D) Low Volume Solution Collection Fill (LVSCF):

PSSA

Cat 740 trucks hauled LVSCF to the PSSA. Haul roads for the trucks were maintained at least 4 feet above secondary geomembrane.

Ames continued placing LVSCF on approved secondary liner in minimum 3-foot lifts with Cat GPS D6 and D8 wide pad dozers between panels S-144 to S-145; S-169 to S-170; S-173 to S-174; S-175 to S-176, S-182 to S185; S-186 to S-190; S-196 to S-199, S-222 to S-229; S-232 to S-233; S-236 to S-247; S-248 to S-267; S-269 to S-275; S-276 to S-294; S-302 to S-317; S-320 to S-324; S-332 to S-333; S-348 to S-354; S-355 to S-359; and S-365 to S-369.

Low volume fill was also feathered into the 9,450' elevation bench on approved secondary liner from approximate stations A10+00 to A12+00 and B16+00 to A22+00 (across the ADR haul road) using a 312 excavator and labors.

See the attached LVSCF map for all placement locations.

E) Drain Cover Fill (DCF):

Ames installed the center and end HVSCS vertical riser plate sections in the PSSA sump for the HVSCS header.



II) Storm Water Management

Best Management Practices (BMPs) are being performed.

CQA ACTIVITIES:

- I) <u>Field Activities:</u> Field activities and observation during this reporting period included: Slope grading and fill placement; underground working remediation and confirmatory drilling; geomembrane deployment, testing, and repair monitoring and certification; LVSCF acceptance for primary liner deployment; LVSCF and SSF sampling; HVSCS header installation; and Highway 67 straight-edging and guardrail work.
- II) <u>Laboratory Activities:</u> Permeability, Atterberg limits, moisture, and sieve analysis laboratory testing continued.

The following samples were collected and returned to AMEC's laboratory for analysis:

- Low Volume Solution Collection Fill samples LVSCF 88 and 89 (control samples)
- Low Volume Solution Collection Fill samples LVSCF 26-R and 27-R (Record samples)
- Select Structural Fill sample SSF 16-R (Record samples.)

General Project Items

Meetings and Discussions:

- Weekly Contractor Meeting September 10, 2014 (CC&V, AMEC, Ames)
- Weekly CC&V Safety Meeting September 11, 2014
- ECA daily safety meetings
- Ames daily safety meetings

Summary of Concerns: None.

Submitted by: Fric Lorenson

CC&V: Daily updates, reporting, and scheduling are some of the tasks occurring between CC&V Projects, AMEC, and Ames.

Miscellaneous:

- Low volume solution collection fill processing was completed; crusher operations returned to drain cover fill production.
- Straight-edging of previously profiled areas as well as various areas as defined by CDOT was performed at Highway 67; CDOT, Ames, CC&V, AMEC, and Yeh & Associates were present.
- Guardrail was replaced at the Highway 67 overlook area.

Deliveries:

- > 12 rolls of 80-mil LLDPE geomembrane DSMS liner was delivered to ECA.
- > Ames received HVSCS piping and staged it at the lay down yard west of the crusher.

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Reviewed by: Tim Burkhard Project Resident Phone: 719-689-2986	Date: September 17, 2014
CC&V Projects Reviewed By: Act Cocod	Date:
Reviewed By: Scott Rulapak	Date: 9-22-14

Date: September 17 2014



ATTACHMENT A

Nomo	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Name	Sept. 7	Sept. 8	Sept. 9	Sept. 10	Sept. 11	Sept. 12	Sept. 13
Tim Burkhard		PR	PR	PR	PR	PR	PR
Steve Rice		UG	UG	UG	UG		
Ben Melly	GL	GL	GL	GL	GL	GL	GL
Robert Redd		LS	LS	LS	LS	LS	LS
Tyler Browning	GT					GT	GT
Eric Lorenson		ST	ST	ST	ST	ST	ST
Denis Koval		ST	ST	ST	ST	ST	
Razi Molloy		LT	LT	LT	Lt	LT	LT
Chad Schreiner	GT	GT	GT	GT	GT	GT	GT
AI Frias	GT	GT	GT	GT	GT	GT	GT
Rick Buxton		ST	ST	ST	ST	ST	ST
Mel Ford		ST	ST	ST	ST	ST	ST
Nick Anderson		ST	ST	ST	ST	ST	ST
Andrea Meduna				PE			

AMEC - 2014 CQA Field Staff Schedule MLE2

LEGEND:

PL = Project Lead

PM = Project Manager

PCE = Project Certifying Engineer

PE = Project Engineer

PR = Project Resident

LG = Lead Geosynthetics Engineer

LS = Lead Soils Technician

ST = Soil Technician

LT = Laboratory Technician

GL = Geosynthetics Lead

GT = Geosynthetics Technician

FLM= Field/Laboratory Manager

UG = Underground Working Remediation

SE = Senior Engineer

GS = Geophysics Survey Geologist

HY = Highway Design Engineer



Photographs of Activities



Photo 1: Geogrid and Select Structural Fill Placement at UG 6543



Photo 2: Loading Stockpiled Cut in the ADR Haul Road for use as Structural Fill





Photo 3: HVSCS Header Installation



Photo 4: Completed HVSCS Header Installation







CRIPPLE CREEK & VICTOR GOLD MINING Co. ANGLOGOLD ASHANTI (COLORADO) SQUAW GULCH (VLF) & HWY 67 RE-ALIGNMENT MONITORING WEEKLY REPORT

Owner:	Cripple Creek & Victor Gold Mining Co.	Project Number:	74201125N0
Project:	Squaw Gulch Valley Leach Fill (VLF)	Week Ending:	September 20, 2014
Location:	Cripple Creek & Victor Gold Mine, CO		
Contractor:	Ames Construction, Inc.		

Reporting Period: 09.14.2014 through 09.20.2014

Days	S	М	Т	W	Т	F	S
Work Shifts	D	D	D	D	D	D	D
	-	Ν	Ν	Ν	Ν	Ν	Ν
D=Day Shift N	N=Night Shift			H= Holiday			

Ambient Temperature Ranges During Week	Weather Conditions During Week:			
Highs: 64°F to 70°F	Cloud Cover:	Partly cloudy to overcast		
Lows: 37°F to 43°F	Precipitation:	Rain: Tue., Wed., Sat.		
	Wind:	Variable		

Ames: Continuing construction tasks for the Valley Leach Facility (VLF).

Planning: Continuing construction activities and scheduling for the VLF.

CONSTRUCTION ACTIVITIES AND PROGRESS:

I) Earthworks

A) VLF (PSSA, Phase 1, and 2)

Topsoil/Overburden Stripping: None.

Tree Grubbing and Clearing, Chipping: None.

Production Drilling: No production drilling occurred in the VLF.

Production Blasting: No production blasting occurred within the VLF.

Structural Fill:

All structural fill material discussed below was placed and compacted per the project technical specifications unless otherwise stated.

Excess material was cut from near station 15+00 on the ADR haul road turn around. The material was transported downslope of Bench C stations C14+00 to C18+00 and to Bench F stations F15+00 to F17+00 where it was placed as structural fill and compacted.

Non-woven geofabric and riprap were placed in the Phase 2 Diversion channel from approximate stations 8+00 to 10+00.



Subgrade:

Two dozers continued slope grading the subgrade downslope of Bench DD between stations DD1+00 to DD5+00 in the Phase 1 area while a Cat hammer hoe broke oversized rock in the subgrade surface. The finished subgrade in this area was compacted with a smooth drum roller.

The subgrade was certified for SLF placement from Bench B to 10 feet upslope of to Bench B between approximate stations B0+00 to B8+00.

See the attached figure of approved subgrade in Phase 1.

Soil Liner Fill:

Cat 777 haul trucks transported SLF from the Cameron stockpile to a location below Bench F between stations F0+00 to F10+00 in the Phase 1 area on approved subgrade where it was stockpiled for future use.

Soil liner fill (SLF) was transported from the Phase 1 stockpile located below Bench F between stations F0+00 to F10+00 and was placed along Bench DD from stations DD4+00 to DD10+00 and upslope between stations B2+00 to B8+00. Some of the SLF was used to form a temporary road to Bench B from Bench DD.

Low Volume Solution Collection Fill:

The following low volume solution collection fill (LVSCF) areas in the PSSA were placed to finished grade per project specifications, inspected, and approved for primary geomembrane placement:

> From the ADR road to central PSSA floor and western slopes.

See the attached LVSCF map for all placement and accepted locations for primary geomembrane deployment.

SLF Processing:

Cameron Site: No SLF mining or processing occurred at the Cameron Site. However, Ames continued transporting the Cameron stockpiled SLF to a new stockpile located below Bench F between stations F0+00 to F10+00 in the Phase 1 area. The processing equipment remains at the Cameron site.

Underdrain System:

Primary Underdrain: Complete.

Secondary Underdrain: No work was performed during this reporting period.

Tertiary Underdrain: Complete within the PSSA footprint.

B) Underground Workings:

Confirmatory drilling occurred at underground working and UG #6313. Additional remediation is required.

Working UG #6576 was drilled, blasted, and requires further remediation.

Working UG #6200 and were excavated to competent rock, backfilled per project specifications, and is considered remediated.

Shot rock was excavated from working UG #6639 and it was partially backfilled for safety. Further remediation is required.