



COLORADO

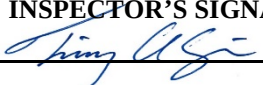
Division of Reclamation,
Mining and Safety

Department of Natural Resources

MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Pikeview Quarry	MINE/PROSPECTING ID#: M-1977-211	MINERAL: Limestone (general), granite, granite gneiss and dolomite	COUNTY: El Paso
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy Cazier, P.E.	INSP. DATE: April 6, 2022	INSP. TIME: 10:00
OPERATOR: Continental Materials Corporation	OPERATOR REPRESENTATIVE: Jerry Schnabel	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Priority	BOND CALCULATION TYPE: None	BOND AMOUNT: \$13,389,784.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: U.S. Forest Service	JOINT INSP. AGENCY: U.S. Forest Service	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 13, 2022	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the continuing planned monthly inspections to observe the backfill placement for the final reclamation of the Pikeview Quarry. Jerry Schnabel (representing the Permittee, Continental Materials Corporation (CMC); and Paul Kos (Stantec) were present during the inspection, as were Amy Titterington and Jennifer DeWoody (both representing the USFS).

The Pikeview Quarry is accessed from near the intersection of Centennial Blvd. and Vindicator Dr. north of Colorado Springs. The quarry has ceased extraction of mined product and is actively focused on final reclamation. The focus of this inspection was to observe backfill placement and compaction effort. This included reviewing compaction testing records.

Compaction testing records are kept in a 3-ring binder labeled "*Inspection and Test Plan And Compaction Testing Reports*" in the site office. These records were reviewed by the DRMS with Mr. Chang Thompson (Stantec) on site. Records include both field "Density Log Book" records (see **Photo 1**) maintained by Brice Civil Constructors, and lab test results from CTL Thompson (see **Photo 2**). All compaction tests as of the date of the inspection met or exceeded the 90% compaction specification.

Backfill material was primarily being excavated from the north end (see **Photo 3**) and hauled to the pit floor for placement. Some backfill was also coming from the south end (see **Photo 4**). Backfill was being placed in one-foot lifts, with dozers using GPS systems (see **Photo 5**) to maintain lift thickness. A compactor was observed working the finished lifts (see **Photo 6**). The exception to the one foot lift thickness, as allowed by the approved reclamation plan was within 30 feet of the face of the slide. Dozers and haul trucks were observed placing material in this 30-foot zone by operating perpendicular to the face (see **Photo 7**) as required for safety in the approved specifications. Site representatives indicated between 8 and 20 feet of compacted fill (depending on location) have been placed since construction began in late February and that ground control survey methods were also being used to monitor lift thickness. Site representatives reported some material is still being imported from offsite as allowed by the approval of TR-19.

Site representatives stated the growth media stockpiled for reclamation would be tested for nutrients.

A test pad (see **Photo 8**) had been constructed on the pit floor for the purpose of exploring the effectiveness of placing backfill in thicker lifts – up to three feet maximum. The test pad consisted of a roughly 100 x 50 foot area on which three feet of fill was placed, then compacted. A dozer was used to scrape off one foot of material (leaving a two-foot lift) in the mid-section and two feet off (leaving a one-foot lift) the southern end. The north end of the test pad was left with a three-foot lift. All three sections were tested for compaction. Preliminary results indicated the 90% compaction specification was met or exceeded in all cases. Brice (construction contractor) planned to deconstruct the test pad immediately after it was inspected in order to comply with the approved specifications.

The USFS and CMC held a meeting after the inspection as part of their continuing to work through federal regulatory requirements for lands within the DRMS permit area that are managed by the USFS. The DRMS did not participate in the meeting.

The boundary line between the DRMS permit and the City of Colorado Springs grading permit on the north end is actively being excavated. As such, maintaining boundary markers along this line is impractical. Mr. Schnabel stated they have survey coordinates for this line and markers can be placed if or when needed. Permanent

boundary markers were observed outside the excavation area.

Closeout Meeting: No concerns or problems were observed by the DRMS during the inspection. A summary of closeout discussions follows:

- Monthly CQA Report: CMC, Stantec and DRMS agreed the monthly construction quality report should include a summary of CQA monitoring, rather than detailed logs and test reports. The report shall include a summary of construction activities (i.e., volume of fill placed – for the month and cumulative, number of tests conducted, number of tests passed), a discussion of any construction anomalies, and how those anomalies were addressed. The report shall also include a statement that all detailed records will be kept on site for the duration of the project.
- Test Pad: All parties agreed that if thicker lifts are sought to be implemented, a technical revision will need to be submitted to the DRMS for review and approval.

Please contact Tim Cazier (303)328-5229 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS

Density Log Book

Tested Area: Southern Portion of Buttress Pit Floor at Elev. 7191 ft		Description: North Borrow material from varied depths mixed with imported fill				Date: MAR 01 2022	Controlling Proctor: TP-7 & Mix		
BCC Test #	CTL Test #	Elevation (Ft.)	Northing	Eastings	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	% Compaction	
Test A1	#1	1	-	-	122	10.5	110.4	90	
Test A2	#2	1	-	-	126.5	7.1	118.1	90	
Test A3	#3	1	-	-	122.9	7.6	114.2	93	
Test A4	#4	1	-	-	120.4	7.9	111.6	91	
Test A5	#5	1	-	-	122.8	8.7	113	92	
Test A6	#6	1	-	-	121.4	8.4	112	91	
Test A7	#7	1	-	-	121.5	10.3	110.2	90	
Test A8	#8	1	-	-	130.6	7.9	121	92	
Tested Area: Southern Portion of Buttress Pit Floor at Elev. 7191 ft		Description: North Borrow material from varied depths mixed with imported fill				Date: MAR 02 2022	Controlling Proctor: TP-7 & Mix		
BCC Test #	CTL Test #	Elevation (Ft.)	Northing	Eastings	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	% Compaction	
Test B1	#9	2	-	-	106.5	11.5	95.5	99	
Test B2	#10	2	-	-	123.1	6.9	115.2	94	
Test B3	#11	2	-	-	124	4.1	119.1	91	
Test B4	#12	2	-	-	119.3	7.4	111.1	90	
Test B5	#13	2	-	-	102.7	7.2	112.6	92	
Test B6	#14	2	-	-	106.4	11.8	95.2	99	
Test B7	#15	2	-	-	102.8	14.7	89.6	93	
Test B8	#16	2	-	-	119.6	8.3	110.4	90	
Tested Area: Southern Portion of Buttress Pit Floor at Elev. 7191 ft		Description: North Borrow material from varied depths mixed with imported fill				Date: MAR 04 2022	Controlling Proctor: TP-7 & Mix		
BCC Test #	CTL Test #	Elevation (Ft.)	Northing	Eastings	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	% Compaction	
Test C1	#17	7192	1401242	3173593	120.5	6.9	113.7	93	
Test C2	#18	7192	1401347	3173422	115.2	8.2	107	100	
Test C3	#19	7190	1401585	3183529	115.7	13.8	101.8	96	
Test C4	#20	7191	1401780	3173529	122.1	7.7	114.4	93	
Test C5	#21	7192	1401873	3173410	119.2	7.4	111.8	91	
Tested Area: Southern Edge of Buttress Pit Floor at Elev. 7190 ft. & Central Portion of Buttress Pit		Description: North Borrow material from varied depths mixed with imported fill				Date: MAR 08 2022	Controlling Proctor: TP-7 & Mix		
BCC Test #	CTL Test #	Elevation (Ft.)	Northing	Eastings	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	% Compaction	
Test D1	#22	7190	1401501	3173679	120.8	11.2	108.6	90	
Test D2	#23	7190	1401622	3173642	119.2	7.9	111.3	91	
Test D3	#24	7190	1401718	3173630	119.6	11	108.6	90	
Test D4	#25	7195	1402062	3173332	115.8	11.5	104.3	99	
Test D5	#26	7200	1402142	3173278	119.2	11.4	107.8	90	
Tested Area: Buttress Pit Floor at Approx. Elev. 7193-7195 ft.		Description: North Borrow material from varied depths mixed with imported fill				Date: MAR 11 2022	Controlling Proctor: TP-7 & Mix		
BCC Test #	CTL Test #	Elevation (Ft.)	Northing	Eastings	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	% Compaction	
Test E1	#27	7194	1401297	3173501	133.5	14	119.5	98	
Test E2	#28	7193	1401396	3173475	133.1	12.4	120.7	99	
Test E3	#29	7193	1401497	3173439	124.3	8.9	115.4	94	

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03/04/2022

BRUCE

Photo 1. Typical Density Log Book sheet.

PHOTOGRAPHS (cont.)

CTL THOMPSON Compaction Testing
INCORPORATED

Report #: SNG-000001
Test date: 03/01/22
Report Date: 03/07/2022
Test Method: ASTM D 6938

Client:
Castle Aggregates
P.O. Box 2378
Colorado Springs, CO 80901

Project:
CS19526 000F-345
PileView Quarry
7250 Allegheny Drive
Colorado Springs, CO

Colorado Springs
5775 West Caring Road
Colorado Springs, CO 80918
Phone: 719-588-8000

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1		03/01/22	8	698C	Granular	10.9	122.6	10.5	110.4	122.0	8	90	90	NA	D
2		03/01/22	4	698C	Granular	7.6	131.4	7.1	118.1	126.5	8	90	90	NA	D
3		03/01/22	8	698C	Granular	10.9	122.6	7.6	114.2	122.9	8	93	90	NA	D
4		03/01/22	8	698C	Granular	10.9	122.6	7.9	111.6	120.4	8	91	90	NA	D
5		03/01/22	8	698C	Granular	10.9	122.6	8.7	113.0	122.8	8	92	90	NA	D
6		03/01/22	8	698C	Granular	10.9	122.6	8.4	112.0	121.4	8	91	90	NA	D
7		03/01/22	8	698C	Granular	10.9	122.6	10.3	110.2	121.5	8	90	90	NA	D
8		03/01/22	4	698C	Granular	7.6	131.4	7.9	121.0	130.6	8	92	90	NA	D

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
1	Embankment Fill: Test 1, south end of fill site.	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
2	Embankment Fill: Test 2, approximately 200 feet north of test 1	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
3	Embankment Fill: Test 3, approximately 200 feet north of test 2	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
4	Embankment Fill: Test 4, approximately 200 feet north of test 3	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
5	Embankment Fill: Test 5, approximately 200 feet north of test 4	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
6	Embankment Fill: Test 6, approximately 200 feet north of test 5	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
7	Embankment Fill: Test 7, approximately 200 feet north of test 6	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary
8	Embankment Fill: Test 8, approximately 200 feet north of test 7	1.0	Above Starting Grade	XPLORER / 3500 / 1993 / 08/31/2021	Wheatley, Zachary

Remarks	Comments
D: Test result is considered acceptable with no moisture requirement.	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. B: Prior to the requested site visit, the contractor reportedly moisture conditioned and applied compaction effort to the site fill. Weather: sunny and 64 degrees F.

This report presents opinions formed as a result of our observations of fill placement and the test results shown above. Test data are not the sole basis for opinions whether the fill meets project specifications. The contractor is responsible to apply necessary compaction effort and moisture to comply with project specifications. Our test results, observations and opinions do not constitute acceptance of the work.

Page 1 of 1

Photo 2. Typical CTL Thompson lab test results sheet.



Photo 3. Excavation and hauling from the north end (looking north from future toe of slope).

PHOTOGRAPHS (cont.)



Photo 4. Excavation and hauling from the south end (looking south from future toe of slope).



Photo 5. CAT D6 with GPS controls grading for lift thickness.

PHOTOGRAPHS (cont.)



Photo 6. Compactor working latest lift (looking north from pit floor).



Photo 7. Dozer and haul truck working perpendicular to slide area.

PHOTOGRAPHS (cont.)

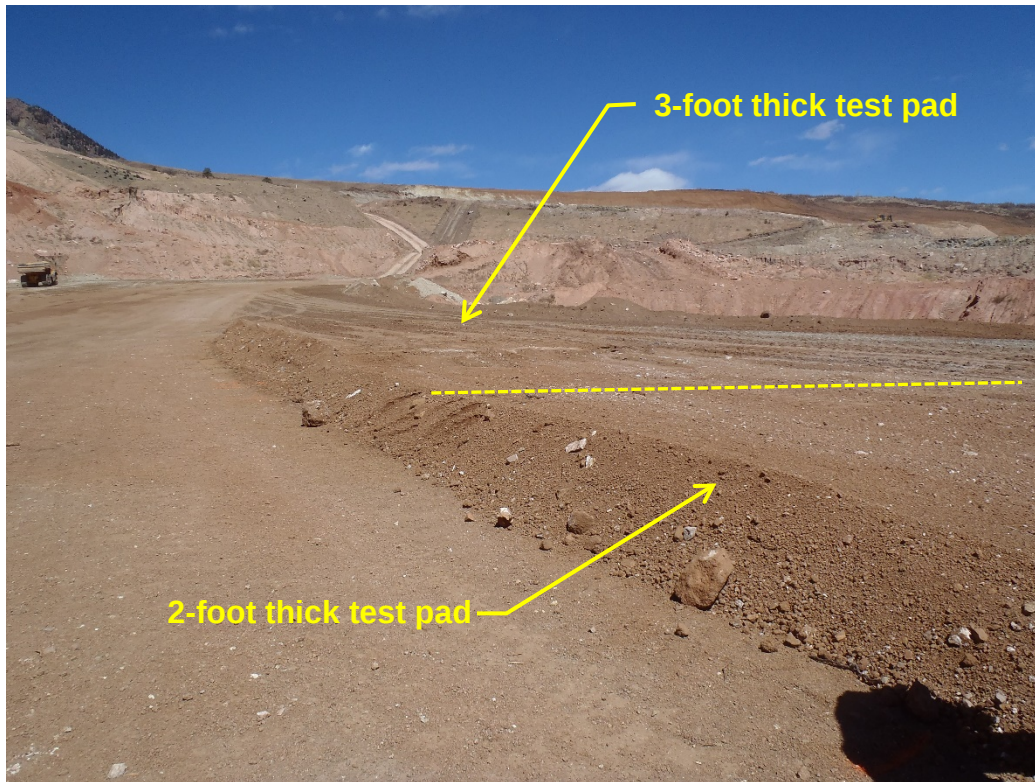


Photo 8. Test pad for investigating thicker lifts (looking north).

Inspection Contact Address

Jerry Schnabel
Continental Materials Corporation
549 E Cucharas Street
Colorado Springs, CO 80903

ec: Zach Trujillo, DRMS
Michael Cunningham, DRMS
DRMS file
Jerry Schnabel, CMC
Amy Titterington, USFS
David Moore, Stantec