

**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: Vasquez Quarry No 2	MINE/PROSPECTING ID#: M-1994-121	MINERAL: Sandstone (silica, stone, quartzite)	COUNTY: Boulder
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: April 6, 2017	INSP. TIME: 10:35
OPERATOR: O & A Stone LLC	OPERATOR REPRESENTATIVE: Arthur Vasquez	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$7,670.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: June 1, 2017	

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>N</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>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>

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

OBSERVATIONS

This was a normal monitoring inspection of the Vasquez Quarry No.2 (Permit No. M-1994-121) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Mr. Arthur Vasquez represented the operator during the inspection. The site is located approximately 3.5 miles northeast of Lyons, Colorado in Boulder County. The site can be accessed from the east via gated entrance off of Stone Canyon Drive. According to the permit file, the affected land is owned by Ignacio and Mary C Vasquez.

The is a 110c operation permitted for 7.4 acres to mine sandstone from the eastern face of a ridge. The operation is situated just south of an ephemeral drainage that, during large storm events, would flow eastward down the ridge side to report to Stone Canyon Creek. The operation is to mine the site generally from north to south, leaving a highwall that faces roughly north/northwest. Overburden and waste rock will be stored at the eastern and western edges of the permit area. Any salvaged topsoil will be stored separately from overburden and waste rock. The operation is to utilize existing roads for mine access.

The approved reclamation plan calls for leaving a highwall along the southern edge of the permit area, but grading all other disturbed surfaces to a gradient of 3H:1V or flatter, replacing approximately 4 inches of topsoil on those areas, and revegetating the site with a mixture of Arizona fescue, Western wheatgrass, Sideoats grama, and Blue grama. All existing haul roads are to remain after reclamation. The approved post-mining land use is industrial/commercial.

At the time of the inspection, it was clear and sunny, and the ground was dry. The site was not active during the inspection. However, Mr. Vasquez indicated the site is active every year, which is in compliance with its intermittent status. The permit boundary was delineated with posts. The Division estimates the operation has disturbed a total of 6 acres (see enclosed Google Earth image of site; also see **Photos 1-6**), including internal haul roads, a topsoil stockpile at the eastern edge of the site, a large overburden/waste rock stockpile at the western edge of the site, a stone and equipment storage area in the southeastern portion of the site, and a highwall along the southern edge of the site that is approximately 460 feet in length and up to 30 feet in height. The portion of the access road that enters the permitted area was constructed on existing overburden/waste rock stockpiles created before the site was permitted. The disturbance area is on or very close to the northern, eastern, and western permit boundaries. The current highwall is within 25-100 feet of the southern permit boundary. Therefore, the Division strongly recommends the operation be very cautious in extending disturbance, especially where the highwall is within 25 feet of the southern permit boundary, to avoid causing offsite damage.

During the inspection, Mr. Vasquez indicated his intention to use the overburden/waste rock stockpiled on site for backfilling the highwall during reclamation. The Division encourages the elimination of highwalls whenever possible, as it provides a more stable post-mining topography. However, the current approved reclamation plan for the site does not include backfilling highwalls. To revise the reclamation plan to include backfilling highwalls with overburden/waste rock stored on site, the operator would need to submit a Technical Revision (see enclosed form). In review of the Technical Revision, the Division would recalculate the required Financial Warranty for the site. The operator should be advised that adding costs for backfilling the highwall would increase the required financial warranty.

This concluded the inspection.

PHOTOGRAPHS



Photo 1. View looking southwest at eastern portion of highwall present along southern edge of site.



Photo 2. View looking south at western portion of highwall present along southern edge of site.



Photo 3. View looking southwest at large overburden/waste rock stockpile stored at western edge of site.



Photo 4. View looking southeast, showing portion of large overburden/waste rock stockpile stored at western edge of site (at right) and quarry (in distance).



Photo 5. View looking southwest, showing stone and equipment storage area located in southeastern portion of site.



Photo 6. View looking north, showing stone and equipment storage area located in southeastern portion of site.

Inspection Contact Address

Arthur Vasquez
O & A Stone LLC
P.O. Box 2526
Longmont, CO 80502

Enclosures: Google Earth image of site
Technical Revision form

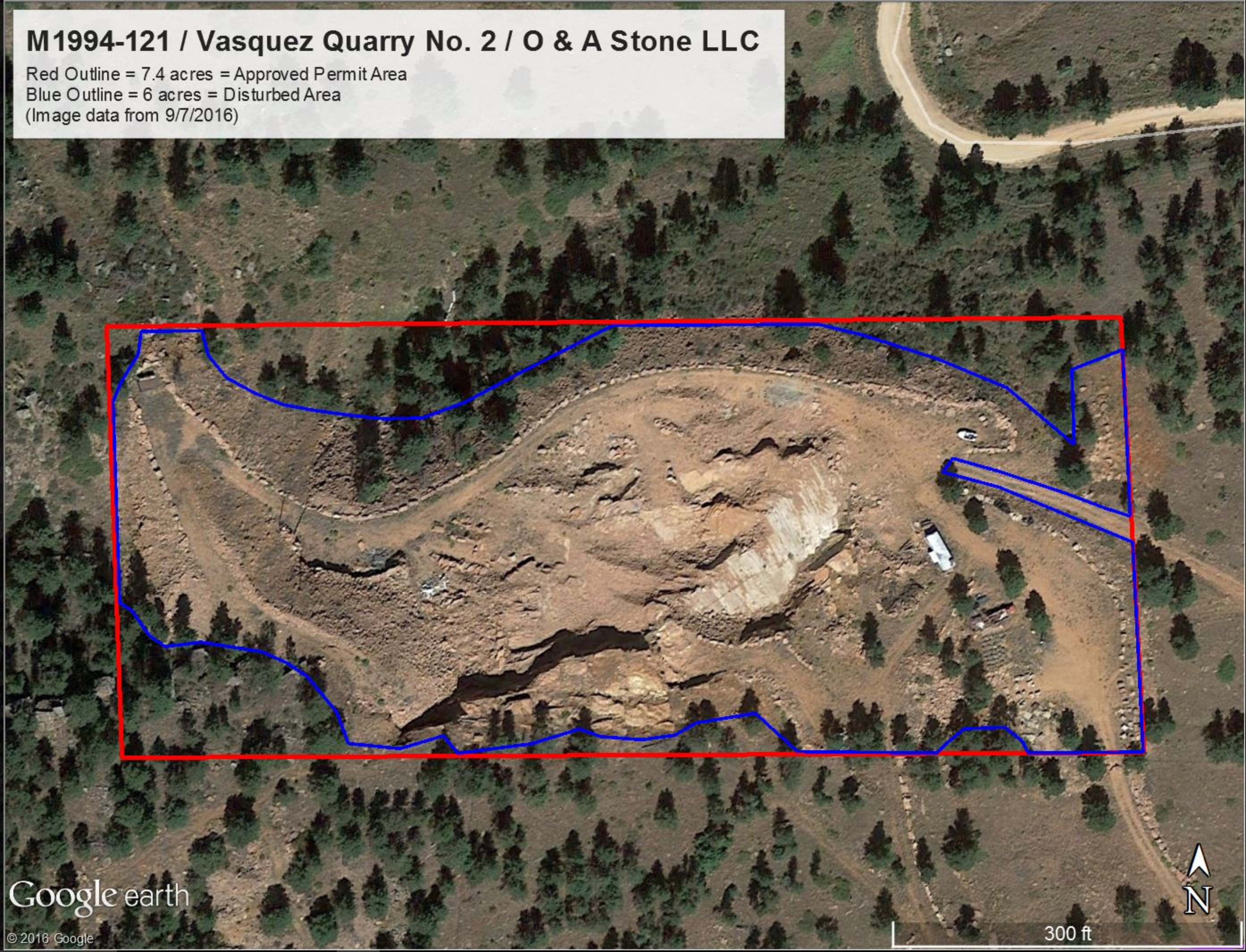
CC: Wally Erickson, DRMS

M1994-121 / Vasquez Quarry No. 2 / O & A Stone LLC

Red Outline = 7.4 acres = Approved Permit Area

Blue Outline = 6 acres = Disturbed Area

(Image data from 9/7/2016)





COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- _____ Site Name: _____

County _____ TR# _____ (DRMS Use only)

Permittee: _____

Operator (If Other than Permittee): _____

Permittee Representative: _____

Please provide a brief description of the proposed revision: _____

As defined by the Minerals Rules, a Technical Revision (TR) is: “a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan.” The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered “filed for review” until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	☐
112 hard rock (not DMO)	\$175	☐
110d, 112d(1, 2 or 3)	\$1006	☐