SURFACE MINING INSPECTION REPORT

(See reverse side of each form page for completion instructions)

I. Mine Name (As Shown on Approved Reclamation P	Plan)				Inspection Date:		CA MINE ID#	
							91-	
II. Mine Operator							Telephone	
·					()			
Onsite Contact Person							Telephone	
							()	
Mailing Address								
City				State		ZIP Code		
E-mail Address (optional)			•					
III. Designated Agent							Telephone	
Mailing Address							,	
City			1	State			ZIP Code	
,								
E-mail Address (optional)			<u>l</u>					
= man / mansos (opnomal)								
IV. SMARA Lead Agency Name (City, County, BCDC	C. or SMGB)							
The sum and sum of the	, c. cc_,							
Inspector							Telephone	
·							()	
Title				Organ	ization		()	
				Organi	Lation			
Mailing Address								
Maining Addition								
City				State			ZIP Code	
C.I.y				Olulo			2 0000	
E-mail Address (optional)								
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V. Does the operation have:	Р	NR	No	Yes	3			
A Permit to Mine				Por	mit # - Start and Expiration	Dates		
A Ferrinc to wine				ren	IIII # - Start and Expiration	Dates		
Vested Right to Mine				Yea	r of Lead Agency determina	ition		
A Reclamation Plan		\sim		RP#		Date A	pproved	
Reclamation Plan Amendment		\longleftrightarrow		RP.	Amendment # (as applies)	Date A	nnroved or St	tatus of Amendment
recommend in an Americanient		\sim		101	Amendment # (as applies)	Dute A	pproved or or	atus of Amenament
Has the Operator filed a Mining Operation Annual Re	eport (Form	MRRC-2) thi	s Year?		□Yes	□No		Year of Most Recent Filed
Check One:				⊔Tes	Пио		Annual Report:	
VII to this Operation on Followship to 10 Object C				-	-		-	
VI. Is this Operation on Federal Land? Check One: If "Yes," Provide One or Both of the Federal Mine Land Identification Numbers Below:								
				1 -4:4			imal Dames	۸.
California Mining Claim Number (CAMC#):			Latitude/Longitude at Mine Entrance (Decimal Degrees):					
II C Farest Camina as DI M Identification Number (Discrete Occasions II)			Status of Plan of Operations (Current/Expired/In Process):					
U.S. Forest Service or BLM Identification Number (Plan of Operations #):			Status	s or Plan or Operations (Cui	rrent/EX	oirea/in Proce	ess):	

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SURFACE MINING INSPECTION REPORT

VII. Financial Assurance		Inspection Date:	CA MINE ID#: 91-	
Type of Financial Assurance Mechanism(s)	cial Assurance Mechanism Number(s)	Amount of Mechanism	Date of Expiration	Date of Lead Agency Approval of Mechanism
	Total Amount of Mechanism(s)			
☐ Financial Assurance Mechanism Pe	ending Review by Lead Agency? If yes, prov	ide date submitted/explanation	n and amount of pe	nding mechanism:
Has there been a change of operator since last inspection? If yes provide the d of notice.	If yes, has the new operator posted a Fi ate Yes No If not, describe status of new operators		Notic a stat	new operator's e of Change include ement of responsibility clamation? es No
Date and Amount of Most Recent Appr Financial Assurance Cost Estimate:	roved Date:	Amount:		
Financial Assurance Cost Estimate Pending Review with Lead Agency?	Date Submitted/Explanation/Amount o	f pending estimate:		
Financial Assurance Cost Estimate Appealed by Operator?	Date Submitted to State Mining and Ge	eology Board or Lead Agency for Ap	peal/Explanation:	
☐ Other?				

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SURFACE MINING INSPECTION REPORT

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a) List Species	g) Stream Diversions	1			
	7) Sensitive Wildlife & Plant Protection				
b) Protection Measures	a) List Species	1			
	b) Protection Measures	1			

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SURFACE MINING INSPECTION REPORT

VIII. Non-SMARA facility operations condit	CA MINE ID #			
not need to be noted here. See Instruction [Use separate sheet(s) where necessar	91-			
[Use separate sneet(s) where necessar	y. Refer to item numbers below]			
Potential Reclamation Plan	List Reclamation Plan Requirements	Note Site Conditions and Compliance Issues		
Requirements:	(Recommended to be filled out prior to field inspection)	(Note additional comments on Page 5 as necessary)	VN?	
8) Soil/Overburden Stockpile Management				
a) Topsoil				
i) Location				
ii) Slope Stability				
iii) BMPs				
b) Overburden				
i) Location				
ii) Slope Stability				
iii) BMPs				
c) Topsoil Application				
i) Amendments				
ii) Depth				
iii) Moisture				
iv) Application Methods				
9) Revegetation				
a) Test Plots				
b) Species Mix				
c) Density				
d) Percent Cover				
e) Species Richness				
f) Protection				
g) Success Monitoring				
h) Invasive Species Control				
10) Structures				
11) Equipment				
12) Closure of Adits				
13) Other Reclamation Plan				
Requirements				

SURFACE MINING INSPECTION REPORT

	support observations of mine site conditions, including violations. Whe r, along with suggested corresponding corrective actions. Also describe	· I (:Δ MINI= II) #
	to avoid or remedy potential violations. Indicate if you have attached ph	
(Add additional sheets as necessary)		
		Inspection Date:
		Weather Code(s):
		Duration of Inspection:
		Start Time:
		End Time:
		Status of Mine Code(s):
		Status of Reclamation Code(s):
		Approximate Acreage Under Reclamation:
		Approximate Acreage the lead agency has determined reclaimed in accordance with the approved reclamation plan:
		Approximate Total Disturbed Acreage:
		Approximate Pre-SMARA Disturbed Acreage:
		Disturbed Acreage Identified in Most Recent Financial Assurance Cost Estimate:
		Previous Inspection Date (and Number of Violations then Noted):
		Violations Corrected? (explain in block to left)
		Inspection Attendees and Affiliations:
		•
X. Number of Current Violations:	Inspectors Signature:	f inspector is a contractor for the lead agency give license type

and number:

Date Signed:

County File 2250-17PAM - Lehigh Quarry (formerly Permanente Quarry)

Notes and photographs from 2017 Annual SMARA mine inspection conducted on 8-10-2017 by James Baker, CEG#1021, County Geologist, and Steve Beams, Senior Construction Inspector.

The 2017 annual SMARA inspection of Lehigh Quarry was conducted for 5 hours on August 10, 2017. In attendance were the following persons (affiliation indicated):

James Baker (County Planning)
Christopher Hoem (County Planning)
Steve Beams (County LDE)
Erich Schickenberg (WRA)
Manjunath Shivalingappa (Lehigh)
Sam Barket (Lehigh)
Erika Guerra (Lehigh)
Talia Flagan (Lehigh)

The 2012 approved Reclamation Plan Amendment identifies nine areas within the mining boundary:

- 1. North Quarry (main pit)
- 2. West Materials Storage Area (WMSA)
- 3. East Materials Storage Area (EMSA)
- 4. Crusher/conveyor
- 5. Surge Pile
- 6. Rock Plant
- 7. South Quarry Exploration Area
- 8. Permanente Creek Restoration Area (PCRA)
- 9. Buffer Areas that surround active mining areas.

The mine was active during the 2017 inspection. The following paragraphs describe our observations in each of the areas [with **PHOTOs** and captions that describe what we observed].

1. North Quarry (Main Pit)

The highwalls on the north, east, and south are essentially complete (excavated benches); while the western side of the pit is still being actively mined (blasting and loading). Extraction of limestone was on-going in the main pit. Overburden materials were being places and compacted against the northwestern highwall. [See **PHOTO #1** and **PHOTO #2**.]

2. WMSA

No new material was being placed in the West Materials Storage Area (WMSA). The northeast-facing slopes of the WMSA have well-established vegetation (grasses and same shrubs). [See **PHOTO #3** and **PHOTO #4**.] Topsoil and organics are stored and covered in the central portion of the WMSA. [See **PHOTO #5**.] There is a seep at the top of the haul road buttress. [See **PHOTO #6**.] (Most of the material stored in the WMSA will be moved and placed as backfill into the main quarry pit. Topsoil will be used to cover benches for plantings.)

3. EMSA

The EMSA slopes have been finish graded per the approved Reclamation Plan. The final elevations have been achieved with a non-limestone cover. BMPs have been placed on the slopes (wattles) and along the benches (rock check dams and silt fences). [See **PHOTO #7**.] Surface drainage is directed into Pond 30 which is rock-lined with non-limestone rock. [See **PHOTO #8** and **PHOTO #9**.] Water discharges through a pipe that outlets onto a rock apron adjacent to the creek.

4. Crusher/Conveyor

The crusher was constructed in 2013 against a 70-foot high retaining wall. Drainage from around the crusher is directed into a sump which overflowed due to a power failure in 2014. As a result, an erosion gulley formed on the steep slope west of the crusher. The operator has had the gully lined with jute netting and several silt fences. [See **PHOTO #10**.] Eroded material accumulated at the toe of the slope and extended into the eastern side of Pond 13. [See **PHOTO #11**.] The operator had a soil-nail wall installed in the head of the erosion gully located downhill of the sump. [See **PHOTO #12**.] The crusher and conveyor will be removed prior to final reclamation. The tunnel through which the conveyor travels will be filled and sealed prior to closure. Wildlife protection procedures (outlined in the RPA and COAs) must be followed when the tunnel is backfilled.

5. Surge Pile

The surge pile has been reduced significantly since last year's inspection. [See **PHOTO #13**.] Sediment that erodes from the surge pile is detained in ponds. [See **PHOTO #14**.] During final reclamation, the surge pile will be removed and the underlying creek channel will restored during the Creek Restoration work that has not yet been approved.

6. Rock Plant

The rock plant was not in operation during the inspection. There are numerous stock piles and equipment in the rock plant area. Runoff from the rock plant is directed into Pond 17. The sheet pile wall along the north side of the channel leading to Pond 17 has failed inward. [See **PHOTO #15** and **PHOTO #16**.] The sheet pile wall needs to be repaired.

7. South Quarry Exploration Area

Located southwest of Permanente Creek, the area was disturbed by excavation of drilling pad and associated roads in order to evaluate the mineral resources in that area. However, the quarry operator withdrew the application to expand the mine into that area and has allowed the natural vegetation to become reestablished there. During the past several years, the growth of grasses and brush appears to have mitigated the previous ground disturbances. A ground survey will be needed to confirm the adequacy of the revegetation to meet the performance standard in the RPA prior to the County granting reclamation closure of the area.

8. Permanente Creek Restoration Area (PCRA)

Plans for restoration of Permanente Creek adjacent to the mine are still in review by several regulatory agencies. Once the plans have been approved, the FACE will need to be revised to reflect the costs of implementing the "construction" described in the plan. For now, the County considers the area to be in compliance with SMARA pending the outcome of agency reviews.

9. Buffer Areas

The undisturbed areas around the active mine are intended to protect the quarry from encroachments by other land uses and to protect nearby land uses from adverse effects of the mining. At the time of our inspection, the Buffer Areas appeared undisturbed and providing the buffer effect intended.

VIOLATIONS

No SMARA violations were noted during the 2017 inspection of the mine.

OTHER OBSERVATIONS

The Quarry is taking actions to comply with the requirements of the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) with regard to water quality and discharge permits. An Interim Treatment System is operational at Pond 4A. [See **PHOTO #17** and **PHOTO #18**.] This treatment system includes a biological reactor, augmented with a reverse osmosis system, to treat water before being discharged into Permanente Creek.

CONCLUSIONS

The County of Santa Clara finds that the Lehigh Quarry (formerly Permanente Quarry) is currently in compliance with the provisions of SMARA.

The elements that have been constructed to minimize erosion and control sedimentation by runoff must be monitored and maintained as necessary to prevent adverse impacts to areas adjacent to the mine.

PHOTO #1 – North Quarry Main Pit (looking southwest)



PHOTO #2 – North Quarry Main Pit (looking southeast)



PHOTO #3 – WMSA (looking northeast)



PHOTO #4 – WMSA (looking northwest)



PHOTO #5 – Topsoil Stockpile



PHOTO #6 – Seep at top of haul road buttress



PHOTO #7 – Southern slopes of EMSA (looking east)



PHOTO #8 – Pond 30 and drainage swale leading to Pond 30 (looking south)



PHOTO #9 – Pond 30 (looking southwest)



PHOTO #10 –Debris track below crusher sump



PHOTO #11 – Pond 13



PHOTO #12 – Tie-back wall at crusher sump



PHOTO #13 – Surge Pile looking southeast



PHOTO #14 – Slopes above Pond 13



PHOTO #15 – Check dams and failing sheet pile wall leading to Pond 17

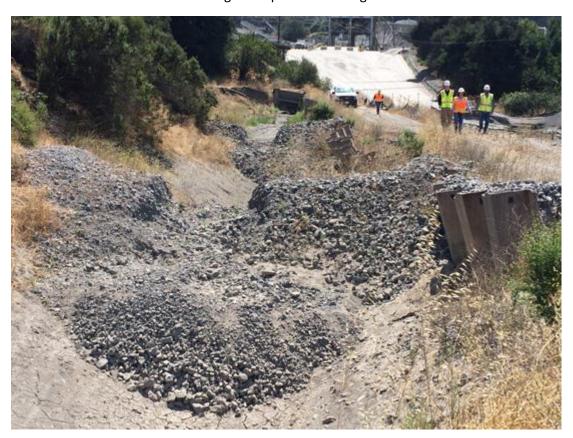


PHOTO #16 – Check dams and failing sheet pile wall leading to Pond 17



PHOTO #17 – Tanks at Interim Treatment System



PHOTO #18 – Pond 4A looking northwest

