

Date Inspection Conducted:	CA Mine ID Number: 91-
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SURFACE MINING INSPECTION REPORT

I. Mine Name:

II. Mine Operator:		
Mailing Address:		
City:	State:	ZIP Code:
Name of Onsite Contact Person:	Email Address:	Telephone:

III. SMARA Lead Agency Name:		
Inspector's Name:		
Name of Entity or Organization:		
Inspector's Mailing Address:		
City:	State:	ZIP Code:
E-mail Address:	Telephone:	

IV. Approved Documents	
Permit Number: <input type="checkbox"/> Not Applicable	Expiration Date, if Applicable:
Vested Right: <input type="checkbox"/> Not Applicable	Date of Lead Agency Determination:
Reclamation Plan Number:	Date Approved:
Interim Management Plan: <input type="checkbox"/> Not Applicable <input type="checkbox"/> Initial <input type="checkbox"/> 1 st Renewal <input type="checkbox"/> 2 nd Renewal	Date Approved:

V. Is this operation located partly or solely on Federal land?	Check One: <input type="checkbox"/> Yes <input type="checkbox"/> No
Are there any Federal authorizations associated with this operation? If yes, explain:	Check One: <input type="checkbox"/> Yes <input type="checkbox"/> No
Inspecting Agency Code(s):	Reason for Inspection:
Land Use Designation/Zoning for Surface Mine Operation:	

SURFACE MINING INSPECTION REPORT

VI. Financial Assurances	
A. Information on Financial Assurance Cost Estimate	
Date and Amount of Most Recently Approved Financial Assurance Cost Estimate	
Date:	Amount: \$
<input type="checkbox"/> Other Information?	Explanation:

B. Information on Financial Assurance Mechanism(s)				
Type of Financial Assurance Mechanism(s):	Financial Assurance Mechanism Number(s):	Amount of Mechanism:	Date of Expiration:	Date of Approval by the Lead Agency:
Total Amount of Mechanism(s):				
Has there been a change of operator since the last inspection? If yes, provide the date of notice.			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Date of Change:				

VII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VII.		
[Use separate sheet(s) where necessary. Refer to item numbers below]		
Potential Reclamation Plan Requirements	List Reclamation Plan Requirements (Recommended to be filled out prior to field inspection)	Note current site observations. Describe site conditions and aspects of the operation that are or may be inconsistent with the reclamation plan or SMARA. (Note additional comments on Section VIII as necessary)
A) General Information		
1) Approved mineral type(s)		
2) Approved production amount (Annual/Gross)		
3) Termination date of operations		
4) Permit end date		

SURFACE MINING INSPECTION REPORT

VII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VII. [Use separate sheet(s) where necessary. Refer to item numbers below]		
Potential Reclamation Plan Requirements	List Reclamation Plan Requirements (Recommended to be filled out prior to field inspection)	Note current site observations. Describe site conditions and aspects of the operation that are or may be inconsistent with the reclamation plan or SMARA. (Note additional comments on Section VIII as necessary)
5) Anticipated/approved use of mined lands after reclamation		
6) Description of pre-SMARA disturbances, if any		
B) Boundaries		
1) Property boundary		
2) Permit boundary		
3) Reclamation plan boundary (RPB)		
4) Setbacks		
C) Slopes – Grading		
1) Fill Slopes –		
i. Slopes – Active (max/current)		
ii. Slopes – Reclaimed		
iii. Compaction		
2) Cut Slopes –		
i. Slopes – Active (max/current)		
ii. Slopes – Reclaimed		
D) Erosion Control		
1) Best management practices (BMPs)		
2) Grading		
3) Vegetation		
E) Ponds		
1) Design – Function		
2) Capacity (area/depth/volume)		
3) Maintenance		
F) Stream & Wetland Protection		
1) Buffers (distance to channel)		
2) Berms (distance/length/height)		
3) BMPs		
4) Drainage		

SURFACE MINING INSPECTION REPORT

VII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VII. [Use separate sheet(s) where necessary. Refer to item numbers below]		
Potential Reclamation Plan Requirements	List Reclamation Plan Requirements (Recommended to be filled out prior to field inspection)	Note current site observations. Describe site conditions and aspects of the operation that are or may be inconsistent with the reclamation plan or SMARA. (Note additional comments on Section VIII as necessary)
5) Grading and slopes		
6) Stockpiles		
7) Stream diversions		
G) Sensitive Wildlife & Plant Protection		
1) List species		
2) Protection measures		
H) Soil/Overburden Stockpile Management		
1) Topsoil		
i. Location		
ii. Slope stability		
iii. BMPs		
2) Overburden		
i. Location		
ii. Slope stability		
iii. BMPs		
3) Topsoil Application		
i. Amendments		
ii. Depth		
iii. Moisture		
iv. Application methods		
I) Revegetation		
1) Test plots		
2) Species mix		
3) Density		
4) Percent cover		
5) Species richness		
6) Protection		
7) Success monitoring		
8) Invasive species control		
J) Structures		
K) Equipment		

SURFACE MINING INSPECTION REPORT

VII. Non-SMARA facility operations conditions solely of local concern (e.g. hours of operation) do not need to be noted here. See Instructions for Block VII. [Use separate sheet(s) where necessary. Refer to item numbers below]		
Potential Reclamation Plan Requirements	List Reclamation Plan Requirements (Recommended to be filled out prior to field inspection)	Note current site observations. Describe site conditions and aspects of the operation that are or may be inconsistent with the reclamation plan or SMARA. (Note additional comments on Section VIII as necessary)
L) Closure of Adits		
M) Other Reclamation Plan Requirements		

VIII. A. Use this space to describe general observations and sketches of the operation:
Additional observations/sheets/documents/sketches/photographs attached? <input type="checkbox"/> Yes <input type="checkbox"/> No
B. Describe areas of the operation that have been disturbed since the last inspection: Approximate total disturbed acreage since last inspection: Approximate total acreage of mined lands:
C. Describe areas of the operation that have been reclaimed since the last inspection: Approximate reclaimed acreage since last inspection: Approximate total reclaimed acreage:
D. Describe areas where the operator plans to conduct operations in the upcoming year:
E. Describe the extent of mined lands with respect to the permitted/approved reclamation plan boundaries:

Date Inspection Conducted:	CA Mine ID Number: 91-
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SURFACE MINING INSPECTION REPORT

F. Describe the fee category reported in the most recent Annual Report and its consistency with the conditions observed during the inspection.	
G. Describe any limitations encountered during the inspection:	
H. Describe conditions or aspects of the operation that are or may be inconsistent with the approved reclamation plan or SMARA:	
I. Do any of those conditions or aspects require further evaluation? <input type="checkbox"/> No <input type="checkbox"/> Yes, describe (For example, further evaluation or analysis may be required by a state-licensed professional or specialist):	
J. Was a Notice of Violation issued for any of the above? <input type="checkbox"/> No, describe: <input type="checkbox"/> Yes, describe:	
K. Describe remedial activities for any pre-existing or existing enforcement actions:	
L. Duration of Inspection: Start Time: Finish Time:	
M. Weather Code(s):	N. Status of Mine Code(s):
O. Inspection Attendees and Affiliations	

IX. Inspector's "Certificate of Completion of Inspection Workshop" Number:	Inspectors Signature:	If the inspector is a State-licensed person or a contractor for the lead agency, provide license type and number:
Certification Expiration Date:	Date Signed:	

**STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF MINE RECLAMATION**

SURFACE MINING INSPECTION REPORT, FORM MRRC-1, INSTRUCTIONS

GENERAL INFORMATION

This report form is intended to comply with the requirements of California's Surface Mining and Reclamation Act of 1975 (SMARA – Public Resources Code §§ 2710 et seq., and the associated California Code of Regulations found in Title 14, Division 2, commencing with § 3500, hereinafter respectively "PRC" or "CCR") and specifically PRC § 2774(b) and CCR § 3504.5 for surface mining operations (operation).

DISTRIBUTION INSTRUCTIONS

The Lead Agency shall forward to the Operator a copy of the Notice of Completion of Inspection (form NOCI-1), the completed Inspection Report (form MRRC-1), and any other supporting documentation (PRC § 2774(b)(2)).

The Lead Agency shall retain the original copy of the Inspection Report and submit one copy of this Inspection Report, along with the Notice of Completion of Inspection (PRC § 2774(b)(1)), within 90-days of conducting the inspection, to:

Department of Conservation
Division of Mine Reclamation
801 K Street, MS 09-06
Sacramento, CA 95814-3529

If any part of the operation or mined lands inspected is on Federal land, one copy of this Inspection Report and Notice of Completion of Inspection shall be forwarded to the appropriate Federal entity, i.e. the BLM or USFS regional office.

**INSTRUCTIONS FOR COMPLETING THE SURFACE MINING INSPECTION REPORT
FORM MRRC-1**

PLEASE TYPE OR PRINT ALL INFORMATION REQUESTED

**NOTE: YOU MUST WRITE THE DATE INSPECTION CONDUCTED AND THE CALIFORNIA MINE ID
NUMBER AND AT THE TOP OF PAGE 1**

1. **BLOCK I:** Enter the name of the mine as indicated on the Annual Report.
2. **BLOCK II:** Enter the name and mailing address of the Mine Operator (Operator), the name of the person serving as the onsite contact, their email address and phone number.
3. **BLOCK III:** For "Lead Agency," enter the name of the SMARA Lead Agency that is conducting this inspection, the name of the inspector and contact information. For "Entity or Organization," enter the name of the entity or organization that employs the inspector.
4. **BLOCK IV:** Enter information with respect to the currently approved reclamation plan, permit and/or vested right and Interim Management Plan. Check Not Applicable as appropriate. In cases where a Reclamation Plan Number has not been assigned by the lead agency, enter any unique lead agency assigned identifier for the approved reclamation plan.
5. **BLOCK V:** Indicate if the operation is located on Federal land. Please identify any government entities or agencies, other than the Lead Agency noted above, that accompanied the inspection.

Inspecting Agency Codes: (can choose multiple)

None	=	None	DFW	=	Department of Fish and Wildlife
BLM	=	Bureau of Land Management	NPS	=	National Park Service
USFS	=	U.S. Forest Service	DOC	=	Department of Conservation
RB	=	Regional Water Quality Control Board	O	=	Other (list Agency)

Reason for Inspection: (can choose multiple)

AI	=	Annual Inspection	RE	=	Re-inspection
PC	=	Public Concern	O	=	Other Reason
OA	=	Other Agency Request	AR	=	Acknowledgement of Reclamation

Provide the land use designation or the zoning information for the parcels on which the mined lands are located.

6. **BLOCK VI:** "Financial Assurances" consist of a current approved Financial Assurance Cost Estimate and a Financial Assurance Mechanism that is at least equal to the current approved Financial Assurance Cost Estimate (PRC § 2736).

The Financial Assurance amount must be reviewed and approved once each calendar year to account for new lands disturbed by surface mining operations and lands to be disturbed in coming year, inflation, and reclamation of lands accomplished in accordance with the approved Reclamation Plan (PRC § 2773.1(a)(3) and the State Mining and Geology Board (SMGB) Financial Assurance Guidelines). In order to determine what adjustments, if any, are appropriate to the Financial Assurance Mechanism amount, each mine operator must submit once each calendar year a revision of the written Financial Assurance Cost Estimate to the Lead Agency (CCR § 3804(c)). An Operator shall provide an updated annual Financial Assurance Cost Estimate to the Lead Agency for review within 30-days of conducting of the annual inspection (PRC § 2773.4(d)(1)(A)). Provide the date and amount of the currently approved Financial Assurance Cost Estimate.

Use the Financial Assurance “Other” and “Explanation” blocks to provide any other pertinent information regarding the status of Financial Assurance(s). If the operation does not have a current Financial Assurance Cost Estimate and/or Financial Assurance Mechanism, explain in detail. A Financial Assurance Cost Estimate is considered current if it has been approved in accordance with applicable requirements of PRC § 2773.4 within the current or previous calendar year.

Type of Financial Assurance Mechanism(s): Fill in the type of mechanism(s) that are on file. CCR § 3803 and the SMGB Financial Assurance Guidelines describe Surety Bonds, Trust Funds, or Irrevocable Letters of Credit as acceptable financial assurance mechanisms for non-governmental entity operators. For surface mining operations owned and operated by state and local government entities, Surety Bonds, Trust Funds, Irrevocable Letters of Credit, Pledges of Revenue, and a Budget Set Aside are acceptable financial assurance mechanisms.

State the Financial Assurance Mechanism(s) document number(s). State the dollar amount of each Financial Assurance Mechanism currently on file. State the date of expiration of the Financial Assurance Mechanism(s) currently on file. State the date of approval for the most recent lead agency approved Financial Assurance Mechanism on file. State the total dollar amount of the mechanism(s) held for reclamation of mined lands.

7. BLOCK VII:

INSTRUCTIONS FOR EACH DATA COLUMN:

Potential Reclamation Plan Requirements (Column 1): Under PRC § 2772 and CCR §§ 3501, 3502, and as described in the Guidance Document for Surface Mine Inspectors in CCR § 3504.6 inspections may include the following: the operation’s horizontal and vertical dimensions, volumes of materials stored on the site; slope angles of stock piles, waste piles and quarry walls; effects of sidecasting and potential geological hazards; equipment and other facilities; samples of materials; photographic or other electronic images of the operation; any measurements or observations deemed necessary by the inspector or the lead agency to ensure the operation is in compliance with SMARA, and specifically the approved reclamation plan. Column 1 provides a list of items that may be included in the approved reclamation plan, either expressly or by reference as described in PRC §§ 2772 and 2772.1, which may include conditions of approval, other permit requirements and supplementary documents, including environmental documents, prepared for the project pursuant to the California Environmental Quality Act (CEQA) (Division 13 (commencing with Section 21000)).

It is not expected that all reclamation plans will include each item of Section VII or be limited to the items listed. Items in Column 1 that are not in the reclamation plan may not need to be addressed in the inspection. In instances where the reclamation plan lacks specific details for the reclamation of mined lands, the inspector may need to consider if additional reclamation requirements or specifics are needed to achieve the proposed use after reclamation. Reclamation plan requirements not listed in Items A through L may be listed in Item M, under “Other Reclamation Plan Requirements.”

Reclamation Plan Requirements (Column 2): Prior to conducting the field inspection, the inspector must review the approved reclamation plan, any amendments, and other reclamation requirements as part of a permit application for the operation that were used to satisfy the requirements of PRC §§ 2772(c), 2773 and 2773.3 and Article 1 (commencing with § 3500) and Article 9 (commencing with § 3700) of Subchapter 1 of Chapter 8 of Division 2 of Title 14 of the California Code of Regulations and any approved modifications contained in permit conditions of approval (COA) or binding mitigation measures adopted pursuant to the CEQA included by reference in the approved reclamation plan pursuant to PRC §§ 2772(d) and 2772.1(b). The most recently approved Financial Assurance Cost Estimate and any pending or ongoing enforcement actions should also be reviewed. Conditions of Approval (COA) that relate to facility

operations solely of local concern, such as hours of operation, noise, and dust control are not subject to the inspection.

Column 2 is intended to provide the inspector a place to match any items noted in Column 1 with those items included in the approved reclamation plan either expressly or by reference, as described above, in PRC §§ 2772 and 2772.1. Also note any Interim Management Plan (IMP) requirements where the mine is subject to an IMP pursuant to PRC § 2770(h).

Indicate the source document for the reclamation plan requirements at the end of the entry in parenthesis; i.e. (COA) Plan of Operations (POO), Environmental Impact Report (EIR), Waste Discharge Report (WDR), Stormwater Pollution Prevention Program (SWPPP), etc. If items listed in Column 1 of Section VII of the form are not included in the reclamation plan or other documents included by reference, write not applicable or "NA" in Column 2.

Specific reclamation requirements may not apply to an operation at the time of inspection, but they are important to ensure current activity at the site will not prohibit reclamation in accordance with the approved reclamation plan.

Site Observations and Compliance Issues (Column 3): Use this space to note current site observations and to describe site conditions and aspects of the operation that are or may be inconsistent with the approved reclamation plan or SMARA, if any, noted for both operating and reclaimed surfaces that pertain to the reclaimed condition of mined lands.

Site conditions that are or may be inconsistent with SMARA include unanticipated but actual conditions encountered as the mining operation progresses, for which mitigation measures were not fully addressed in the reclamation plan and which affect any aspect of reclamation or calculation of the FACE, as described in the approved reclamation plan.

8. **BLOCK VIII:** The inspector responds to the statements or questions in the space provided for (A) through (O). Additional instructions are provided below for (A), (F), (G), (I), (J), (L), (M), (N), and (O).

(A) If additional space is required to record observations, photographs, etc., please check the corresponding box in (A) and attach documentation to the MRRRC-1.

(F) Requires the inspector to describe the fee category reported in the most recent Annual Report and its consistency with the conditions observed during the inspection.

(G) Requires the inspector to describe limitations encountered during the inspection. These limitations may include, but are not limited to: inaccessibility to certain areas due to weather, blasting, excavating, etc.

(I) Requires checking a "Yes" or "No" box. Conditions or aspects identified in (H) requiring further evaluation should be described further.

(J) Requires checking a "Yes" or "No" box. A description of why or why not a Notice of Violation was issued for conditions or aspects identified in (H) should be provided.

(L) For "Duration of Inspection," indicate the start and end times of the inspection (do not include travel time).

(M) Weather Codes

CR = Clear
CL = Cloudy
SN = Snow
RN = Rain
WD = Windy

(N) SMARA Status of Mine Codes (based on annual report and reported production under CCR §3695, indicate the appropriate status code):

NP = Newly Permitted (surface mining operation not begun)
Active = Operation Not Idle (per PRC § 2727.1)
I = Idle (per PRC § 2727.1)
AB = Abandoned (per PRC §2700(h)(6))

(O) Attendees: Provide the names and affiliations of parties in attendance at the inspection.

9. **BLOCK IX:** Provide the Inspector’s “Certificate of Completion of Inspection Workshop” Number and expiration date. Sign and date the Inspection Report. If applicable, include the inspector’s certification (Professional Engineer (PE), Professional Geologist (PG), Licensed Landscape Architect, Registered Professional Forester, Professional Land Surveyor (PLS), etc.) and license number. The lead agency shall cause an inspection to be conducted by a state-licensed geologist, state-licensed civil engineer, state-licensed landscape architect, or state-licensed forester, or a qualified lead agency employee pursuant to PRC § 2774(b)(1).

DISTRIBUTION INSTRUCTIONS

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Attachment A

2022 Stevens Creek Quarry Annual SMARA Inspection

County File PLN07-1253-2022-Annual Report State Mine ID #91-43-0007

Inspection Date: September 22, 2022

The mine entrance is located near latitude 37.296172° and longitude -122.083880°.

The 2022 annual SMARA inspection was conducted for approximately 2.5 hours on the morning of September 22, 2022. In attendance were James Baker (County Geologist), Robert Salisbury (Senior Planner), David Seymour (County Geologist), and Jason Voss (Operator). The mine was active during the inspection. The weather during the inspection was clear and dry.

BACKGROUND

Stevens Creek Quarry lies in a north-northwest trending canyon on the northeast side of Monte Bello Ridge in the Santa Cruz Mountains. The access to the mine is off of Stevens Canyon Road, which runs along the west side of the Stevens Creek Reservoir and Stevens Creek County Park. The County approved the current Reclamation Plan Amendment in May 2009. The current mining operation occurs in two areas commonly referred to as “Parcel A” and “Parcel B”. Parcel A encompasses 51 acres on the southeast side and Parcel B (consisting of several Assessor parcels) encompasses a combined 96 acres on the northwest. The mine operations and reclamation plan encompass approximately 147 acres of a 167-acre site.

Parcel A contains the mining operations offices, shops, and maintenance facilities. The County issued a Use Permit in 1996 for recycling concrete, asphalt, and soil; this recycling facility is also located on Parcel A. In addition, the City of Cupertino operates a compost distribution facility on a small portion of Parcel A.

Mineral extraction primarily occurs on Parcel B where rock is mined from a large, steep-walled pit and the crushing, screening and sorting equipment occupy a portion of Parcel B. Mining in Parcel B extracts primarily Franciscan greenstone for aggregate. The land to the north, east, and west sides of Parcel B is undeveloped land owned by Heidelberg Cement Incorporated (owner of Lehigh Permanente Quarry and Cement Plant). A portion of the Stevens Creek Quarry operation is located within the City of Cupertino; the County acts as lead agency on behalf of the City of Cupertino per an agreement between the County and the City of Cupertino. The adjacent properties to the south of the main quarry pit are residential (single-family residences).

In addition to the annual SMARA inspections, County staff inspects Stevens Creek Quarry (Quarry) on a monthly basis to monitor stormwater controls and compliance with conditions of approval.

SITE CONDITIONS

Recycling Operations: The northeastern portion of Parcel A was previously mined and is currently used for (1) storage of overburden materials to eventually be used to backfill the lower portion of the cut slopes of the Quarry pit on Parcel B, and (2) recycling of concrete, asphalt and soil that are brought to the site from nearby construction projects. Large stockpiles of these imported materials are placed along the northern portion of the Parcel A boundary and partially bury the previously mined slope. [See **Photo 1** below.] The recycling equipment is located north of the Quarry offices on Parcel A. [See **Photos 23 and 24** below.]

Slump Repair: An area located east of the recycling operation on Parcel A had a slump repair (2012) that is now buried and appears stable. [See **Photo 2** below.]

Stockpile Parcel A: Inspectors observed a large stockpile of topsoil on Parcel A. [See **Photos 3 and 22** below.]

Settling Basins: Stormwater from the Quarry is stored in a routed to series of former settling basins (Upper Settling Basin, Middle Settling Basin, Lower Settling Basin) located in the southern portion of the site. Two of these basins (Middle and Lower) are in Parcel A [see **Photos 5**], the Lower basin being the largest [see **Photo 28** below]. Per direction from the RWQCB and the County, the operator installed a new settling basin [see **Photos 31a-c**] adjacent to the main access road, that replaced the function of the in-stream settling basins. The settling basins eventually discharge off-site via a southeastern stormwater detention basin adjacent to the mine entrance. Discharge water enters a tributary feeding Stevens Creek Reservoir. An earthen dam (approximately 55 feet high) is located between the former Upper and Middle Settling Basins [see **Photo 25** below, taken from top of dam looking upstream at inactive upper settling basin]. The southern portions of the dam and upper settling basin was previously located beyond the property line. A lot line adjustment was recorded on July 19, 2017, to expand the property boundary to include these features. A Reclamation Plan Amendment (RPA) is needed to modify the boundary of the Reclamation Plan area to include the entirety of the Upper Settling Basin and dam. The County identified this violation and sent the Quarry a Notice of Violation in September 2017 and subsequently entered into a Stipulated Order to Comply and Compliance Agreement with the operator on May 16, 2018. The Compliance Agreement was subsequently modified to include the date for RPA application submittal and processing milestones. On September 21, 2020, the operator submitted an RPA and Use Permit application to correct the violations. On December 8, 2021, the County deemed the application complete and EIR preparation is anticipated to begin once an updated scope and bid have been prepared.

Stormwater Best Management Practices (BMPs): County previously observed ongoing erosion gullies located on fill slopes (Parcel B) above haul road [see **Photo 6**]. The operator implemented erosion control and BMP measures at the suggestion of the County including hydroseeding and installation of check dams. These measures appear to be functioning adequately [see **Photo 29** below]. Recently, the operator has been making improvements to the Parcel A stormwater system at the direction of the RWQCB. These include regrading internal access roads, re-routing drainage channels to reduce sediment transport, and a new sediment removal system, currently being tested by the operator prior to permanent installation [see **Photos 27, 30, and 36**]. These improvements were done to reduce the level of sediment in discharge water. The County will continue to inspect this area to ensure these necessary BMPs are maintained.

Crusher and Retaining Wall: Mining is conducted in Parcel B in a north-northwest trending quarry where Franciscan greenstone bedrock is extracted. Equipment for crushing and sorting rock materials is located the southeast portion of Parcel B [see **Photo 7** below].

Failure of North “Finished” Cut Slope: Previously observed ground cracks that were repaired by the operator have not reappeared [see **Photo 8** below]. County inspectors observed the repair of the perimeter access road which was previously disrupted by the headscarp of a large landslide [see **Photo 9** below]. The operator submitted a geologic report dated January 29, 2017 that recommended an additional width (200 feet) of buttress be added to the toe of the slope in order to achieve an acceptable factor of safety. Last year, a large buttress fill was being placed against the lower and middle portions of the slope below the north slope. This year County inspectors observed that additional buttress fill had been placed. [See **Photos 12 and 14** below.] Previously observed ground cracks in the buttress fill material was filled in by the operator; ground cracks have not reappeared in this [See **Photos 10 and 11** below].

Failure of Northwest “Finished” Cut Slope: Another slope failure has disrupted the cut slope on the northwest side of the quarry pit. The headscarp of that failure has affected the southern end of the retaining wall built to protect the radio shack at the top of the slope. [See **Photos 13 and 15** below.]

During previous annual inspections, County inspectors observed that the ground surface adjacent to the radio shack had dropped, causing protrusion of concrete piers. The operator placed gravel, to bury the piers but they have since reappeared due to additional slope movement [see **Photo 16** below]. However, associated ground cracks were observed at the top of the slope failure, west of the western property boundary. [See **Photo 17** below.] The County requested additional geotechnical analysis of these slopes as part of the Reclamation Plan Amendment currently under review by the County. Since the last annual SMARA inspection ground cracks have grown larger, and the retaining wall constructed by the operator has been damaged due to ground movement, indicating continuing instability in these slopes.

Failure of Southwest “Finished” Cut Slope: Another slope failure has disrupted the cut slope on the southwest side of the quarry on Parcel B. Inspectors observed that the headscarp of the failure had approached the retaining wall built to protect three PG&E power poles. [See **Photo 18** below.] County inspectors observed landslide debris accumulation at the toe of the slope, and observed the operator removing this material during last year’s inspection. During the past year, the operator graded in a new cut slope in the upper portion and deposited uncompacted spoils below the new cut. [See **Photo 19** below.]

Rattlesnake Creek: In 2017, County observed a slope failure above Rattlesnake Creek along a road towards the west end of Parcel B. The Quarry built a fill slope to repair the road and installed jute netting to minimize erosion. The slope appears to be stable, and vegetation has been reestablished in this area. [See **Photo 20** below.]

Cut Slope Along Southeastern Side of Parcel B: A shallow failure in the cut slope adjacent to the operating equipment located in the southeastern corner of Parcel B, first observed during previous inspections, does not appear to have progressed. [See **Photo 21** below.] Although the

ground has moved, the County expects this area to be corrected during final reclamation. The County will continue to monitor this shallow failure during monthly inspections of the quarry.

"Finished" slope along western property line: Finished cut slope along Western property line showing ground cracks indicating ground movement. County has directed the operator to monitor this area, and County inspectors will continue to monitor this area during monthly inspections [see **Photo 32**].

"Finished" slope along eastern property line: A separate localized failure was excavated by the operator and will need to be removed or repaired [see **Photo 33**]. The operator has excavated the final cut slope along the eastern property line [see **Photo 34**].

RESOLVED ACTION ITEMS

1. *Mine Boundary:* County inspectors inquired about the operator's ability to adhere to the mining boundary as specified in the approved RPA. The operator told County inspectors that the mining boundary is electronically demarcated, and equipment operators rely on GPS to ensure that they do not impermissibly mine within buffer areas or cross the RPA boundary. County inspectors did not observe evidence of any mining activities outside of RPA boundary. As shown in **Photo 17** and discussed above, previously observed ground cracks that cross the northwest property line have grown since the prior inspection and will need to be corrected by the operator.
2. *Stormwater BMPs:* During past inspections, County inspectors observed fill slopes with no erosion control measures, primarily in the area of the new crusher and adjacent to the haul road. The County previously required the operator to implement soil stabilization measures and install adequate BMPs, including hydroseeding, at all locations where active grading or disturbed soil have occurred. Subsequently, these measures were implemented and appeared to be functioning adequately during last year's inspections. The County will continue to inspect these areas to verify that BMPs are maintained.

ACTION ITEMS

1. *Revegetation:* Operator has installed a nursery with an automatic watering system to germinate and raise native oak trees. [See **Photos 4a and 4b** below.] County suggested last year that the Mine Operator establish vegetation test plots on quarried conditions similar to those that will exist for reclamation to prove the viability of proposed reclamation plantings and retain a botanist or qualified biologist for the installation and reporting to achieve results for revegetation in accordance with the standards of the Reclamation Plan.
2. *Non-native weeds:* Small areas of non-native weeds are present on the quarry site as shown in **Photos 20 and 35** below. Operator should remove these small number of non-natives plants to prevent further spread.
3. *Compliance:* In May 2018, the operator entered into a Compliance Agreement with the County which required the operator apply for a Reclamation Plan Amendment to modify the Reclamation Plan boundary, address slope failures, and relocate the Upper Settling Basin outside of Rattlesnake Creek. As noted above, the Compliance Agreement was subsequently

modified to include deadlines for RPA application submittal and processing milestones. On September 21, 2020, the operator submitted an RPA and Use Permit application to correct the violations. On December 8, 2021 the County deemed the application complete. An EIR scope and bid has been prepared, and the County is currently awaiting payment from the operator. Work on the EIR will begin after receipt of payment from the operator; payment is expected in November 2022.

FINANCIAL ASSURANCE COST ESTIMATE

The operator submitted the 2022 FACE on October 21, 2021, which is currently under review by the Department.

Photos:



Photo 1: Recycling operation on Parcel A.



Photo 2: Repaired slope between Parcel A and gun club.



Photo 3: Stockpiled soil on Parcel A.



Photo 4a: Nursery for germinating native oak trees



Photo 5b: Close-up of germinating native oak trees in Nursery



Photo 6: Face of dam between upper and middle settling basins.



Photo 7: Erosion rills on fill slope above main haul road.



Photo 8: Relocated rock crusher.



Photo 9: North perimeter road cut slope. No change in condition.



Photo 10: Area of former retaining wall above north high wall (buried)



Photo 11: Regraded area where ground cracks on top of buttress fill of north high wall were observed during 2020 inspection.



Photo 12: Location of former ground crack on east-facing fill slope near northeastern corner of property.



Photo 13: Buttress fill on north high wall.



Photo 14: High wall along west side of pit.



Photo 15: Panorama of buttress fill along north side of pit below retaining wall on northwest high wall.



Photo 1516: Slope failure below radio containers on western high cut wall.



Photo 17: Ground cracks near radio containers at northwest property line.



Photo 18: Ground cracks and headscarp beyond northwest property line.



Photo 19: Slope failure on southwestern high cut wall, looking south. (Profile view)



Photo 20: Slope failure on southwestern high cut wall below three PG&E poles, looking west.



Photo 21: Regraded south-facing slope along the north side of Rattlesnake Creek.



Photo 22: Shallow failures of cut slope along east side of Parcel B (in tree shadows).



Photo 23: Dirt stockpile at eastern portion of Parcel A.



Photo 24: Soil processing equipment at eastern portion of Parcel A.

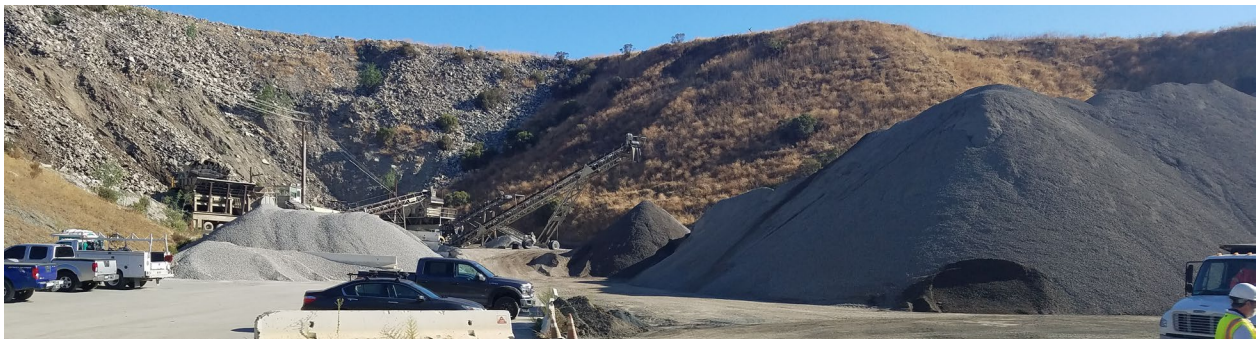


Photo 25: Recycle stockpile north of quarry office.



Photo 26: Former Upper Settling Basin; no longer receiving sediment from quarry operations.



Photo 27: Regraded fill slope along west side of Pand 5..



Photo 28: Drainage basin located west of office.



Photo 29: Middle and Lower Settling Basins.



Photo 30: Check dams along road by north side of Rattlesnake Creek.



Photo 30: Settling basin near main entrance.



Photo 31a: West end of recently graded settling basin (known as BAGG basin) installed to comply with RWQCB requirements.



Photo 31b: Cut slope along north side of BAGG basin.



Photo 31c: BAGG Basin (looking East).



Photo 32: Final cut slope along western side of pit (center portion).



Photo 33: Slope failure scar (debris removed) located near the northeastern corner of Parcel B.



Photo 34: Looking south along cut slope on east side of pit.



Photo 35: Open crack in fill berm and non-native weeds located along south side of graded road above main haul road.



Photo 36: Installation of new water treatment system.