



RECLAMATION PLAN APPLICATION

San Luis Obispo County Department of Planning and Building

NOTE: Instructions for completing this form are contained in the county Department of Planning and Building publication, Reclamation Plan Guidelines. The numbers in parentheses are used in the Guidelines to show which portion of this form is being explained. If additional space is necessary to complete this application, attach additional sheets.

GENERAL INFORMATION

- (1) Mine Name: Santa Margarita Quarry (2) CA Mine ID# 91-40-0003
 (3) Existing Land Use Permit Number: D900016D, M810106:1
 (4) Estimated Life of Operation: 59+ Years (5) Date of Mine Opening: 1920
 (6) If public ownership (BLM or USFS), has Plan of Operations been prepared? N/A
 Yes No If **YES**, attach evidence.

MINE INFORMATION

- (7) Raw Materials Mined: Granite & Aggregate (8) Yield (in tons or cu. yds./year): Max 700,000 T/Y
 (9) Type of Mine: Borrow Pit Stream Bed Skimming Quarry Underground
 Clay Pit Other (Specify) _____
 (10) Geologic Group, Formation and Member: Cretaceous Granitic Basement Rock (unnamed)
 (11) On-site processing? Yes No
 (12) Total acreage affected by mining : (Areas Overlap)
 Mining: 94.5 Acres Waste disposal: N/A
 Processing: 14 Acres Settling ponds: N/A
 Roads: 6 Acres Support Facilities: 0.5 Acres
 Stockpiles: 4 Acres Total acreage in plan: 126.1 Acres
 (13) The operation is (or will be): Continuously active Intermittently active Idle
 Abandoned Undeveloped Other (specify) _____
 (14) Total acreage affected by mining prior to January 1, 1976 and not mined after that date: 0
 (15) Drainage: Salinas River (16) Tributary to: Monterey Bay
 (17) Will mining progress in separate phases? Yes No
 (18) Will groundwater be encountered during mining (including any perched, regional or artesian flow)?
 Yes No Minimal - see Hydrogeology Report - Sect. 3-3-3.4
 (19) Is soil salvage and replacement proposed? Yes No No change in existing
 (20) Will water be used for mining or processing? Yes No processing and operations
 (21) Will settling basins be used? Outside RPA Yes No is proposed.
 (22) Will water be discharged from the affected area? Yes No
 If YES, has a Storm Water Pollution Prevention Plan be prepared for the Regional Water Quality
 Control Board approval? Yes No

- (23) Will the operation involve relocation, blockage or alteration of any water course or stream? Yes No
 If YES, has the Department of Fish and Game been notified. Yes No
- (24) Use of site prior to mining and will the use continue during mining: Open Space/Active Mine Ops
- (25) Proposed use following reclamation: Open Space
- (26) Total acreage included in proposed reclamation plan: 126.1 Acres
- (27) Estimated costs of reclamation for the first year of operation (attach financial assurance cost estimate worksheet). Express costs in today's dollars: \$759,419 (Current) New FACE to be provided.

COSTS AND GUARANTEES OF RECLAMATION

- (28) Proposed type(s) of guarantee of reclamation:
 Performance bond Letter of Credit
 Certificate of Deposit Other (Specify) _____
- (29) Acres of affected area previously covered by guarantee of reclamation: 85 Acres

REQUIRED SUPPORTING DOCUMENTS

- (30) Please make sure you have attached the following items to this application:
- | | |
|--|---|
| <input checked="" type="checkbox"/> Notarized statements/possessory interest in lands | <input checked="" type="checkbox"/> Reclamation plan map/cross sections |
| <input checked="" type="checkbox"/> 7 ½ min. USGS Quadrangle | <input checked="" type="checkbox"/> Typical soil profile |
| <input checked="" type="checkbox"/> Site Geologic map/cross sections | <input checked="" type="checkbox"/> Diagram of Mineral Processing |
| <input checked="" type="checkbox"/> Development and Mining Plan/Cross Sections | <input checked="" type="checkbox"/> Reclamation narrative |
| <input checked="" type="checkbox"/> For pit and hill side mines, drawings showing before and after contours. | <input checked="" type="checkbox"/> Reclamation Plan Application Supplements (A through J) |
| <input checked="" type="checkbox"/> Revegetation Plan or alternate proposal | <input checked="" type="checkbox"/> Financial Assurance Cost Estimate |
| | <input checked="" type="checkbox"/> Other documents-list |

VERIFICATION

- (31) Documents prepared by: Applicant Other (32) Telephone: _____
 If Other, provide name, address, and number and type of license:
 Name _____
 Mailing Address _____ City _____ Zip _____
 License Number: _____

(33) Print or type name to be signed on line below

I, RYAN JACOBY state under penalty of perjury that I (am the applicant) (am an officer or official of the applicant). That the documents, and statements submitted as part of this application are true and correct to the best of my knowledge and belief, and that I hereby accept the responsibility for reclaiming the mined lands described herein in the manner described herein and attached, forming the reclamation plan for the _____ (mine or project)

Signature Ryan Jacoby Date MAY 21, 2012

Affidavit
State of California)
County of) SS

I, _____,
a Notary Public in and for the State of California,
do hereby certify that on the _____ day of
_____, 20____, before me personally
appeared _____
and subscribed and swore this instrument.
Witness my hand and seal this _____ day
of _____, 20_____.

Title

Signed in the County of:

INSTRUCTIONS:

1. There must be signed by an individual on his or her own behave or a company officer (title of officer must be provided) for an incorporated company accepting responsibility. Any signature for a partnership or trust must be accompanied by proof of authorization to sign on behave of the partnership or trust.
2. A Notary Public must witness the signature.

State of California)
County of SAN LUIS OBISPO)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

On 21 MAY 2012 before me, KENNETH LEROY S. SILVA NOTARY PUBLIC
(here insert name and title of the officer)

personally appeared RYAN CHRISTOPHER JACOBY

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Kenneth Leroy Silva

(Seal)

OPTIONAL INFORMATION

Although the information in this section is not required by law, it could prevent fraudulent removal and reattachment of this acknowledgment to an unauthorized document and may prove useful to persons relying on the attached document.

Description of Attached Document

The preceding Certificate of Acknowledgment is attached to a document titled/for the purpose of RAD

containing 1 pages, and dated 5-21-12.

The signer(s) capacity or authority is/are as:

- Individual(s)
 Attorney-in-Fact
 Corporate Officer(s) _____ Title(s)

- Guardian/Conservator
 Partner - Limited/General
 Trustee(s)
 Other: _____

representing: _____
Name(s) of Person(s) or Entity(ies) Signer is Representing

Additional Information

Method of Signer Identification

Proved to me on the basis of satisfactory evidence:
 form(s) of identification credible witness(es)

Notarial event is detailed in notary journal on:

Page # _____ Entry # _____

Notary contact: _____

Other

Additional Signer(s) Signer(s) Thumbprint(s)

SUPPLEMENT B: CONSENT OF LANDOWNER FOR INSPECTIONS & RECLAMATION

We the undersigned, the owners of land located at 16815 El Camino Real, Atascadero (Site of Processing and Seepage Ponds)

Assessor's Parcel Number(s) 070-131-022 (Kaiser Sand & Gravel), upon which Hanson Aggregates is to conduct a mining operation, and for which application Hanson Aggregates (Name of Operator) for approval of a Reclamation Plan is being made, and of which application this consent is a part, do hereby irrevocably grant to the operator, the State of California, County of San Luis Obispo or any of its authorized agents, the right to enter upon the land affected by the operator for annual Surface Mining and Reclamation Act (SMARA) inspections and for the purpose of backfilling, planting and reclamation, or for inspection and evaluation as to the satisfactory completion of such measures in accordance with the provisions of the Surface Mining and Reclamation Act of 1975 and San Luis Obispo County Code, Section 22.08.180 or Section 23.08.180, as amended.

Ryan Jones
(Signature of Landowner)

MAY 21, 2012
(Date)

Affidavit:
State of California)
County of) SS

I, _____, a Notary Public in and for the State of California, do hereby certify that on the _____ day of _____, 20____, before me personally appeared _____ and subscribed and swore this instrument. Witness my hand and seal this _____ day of _____, 20 ____

Title

Signed in the County of:

INSTRUCTIONS:

- 1. If the land is owned by one or more persons, all owners must sign.
- 2. File one (1) copy for each landowner.
- 3. If owned by an estate, authority for signing must be established.
- 4. A Notary Public must witness the signature.

State of California)
County of SAN LUIS OBISPO)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

On 21 MAY 2012 before me, KENNETH LEROY SILVA NOTARY PUBLIC
(here insert name and title of the officer)

personally appeared RYAN CHRISTOPHER JACOBY

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Kenneth Leroy Silva



(Seal)

OPTIONAL INFORMATION

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Description of Attached Document

The preceding Certificate of Acknowledgment is attached to a document titled/for the purpose of CONSENT OF LANDOWNER DOC. containing _____ pages, and dated 5-21-12.

The signer(s) capacity or authority is/are as:

- Individual(s)
- Attorney-in-Fact
- Corporate Officer(s) _____ Title(s)

- Guardian/Conservator
- Partner - Limited/General
- Trustee(s)
- Other: _____

representing: _____
Name(s) of Person(s) or Entity(ies) Signer is Representing

Additional Information

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Proved to me on the basis of satisfactory evidence:
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Notarial event is detailed in notary journal on:

Page # _____ Entry # _____

Notary contact: _____

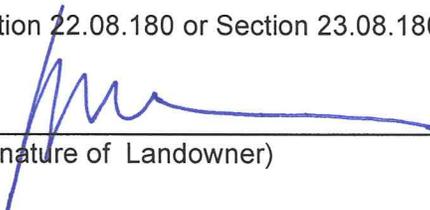
Other

Additional Signer(s) Signer(s) Thumbprint(s)

SUPPLEMENT B: CONSENT OF LANDOWNER FOR INSPECTIONS & RECLAMATION

We the undersigned, the owners of land located at 16805 El Camino Real, Atascadero (Site of current and proposed quarry pit)

Assessor's Parcel Number(s) 070-141-006, 070-141-054 (Mission Lakes), upon which Hanson Aggregates is to conduct a mining operation, and for which application Hanson Aggregates (Name of Operator) for approval of a Reclamation Plan is being made, and of which application this consent is a part, do hereby irrevocably grant to the operator, the State of California, County of San Luis Obispo or any of its authorized agents, the right to enter upon the land affected by the operator for annual Surface Mining and Reclamation Act (SMARA) inspections and for the purpose of backfilling, planting and reclamation, or for inspection and evaluation as to the satisfactory completion of such measures in accordance with the provisions of the Surface Mining and Reclamation Act of 1975 and San Luis Obispo County Code, Section 22.08.180 or Section 23.08.180, as amended.



(Signature of Landowner)

5/21/12, 20 12
(Date)

Affidavit:
State of California)
County of) SS

I, _____, a Notary Public in and for the State of California, do hereby certify that on the _____ day of _____, 20____, before me personally appeared _____ and subscribed and swore this instrument. Witness my hand and seal this _____ day of _____, 20 ____

Title

Signed in the County of:

- INSTRUCTIONS:**
1. If the land is owned by one or more persons, all owners must sign.
 2. File one (1) copy for each landowner.
 3. If owned by an estate, authority for signing must be established.
 4. A Notary Public must witness the signature.

State of California)
County of SAN LUIS OBISPO)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

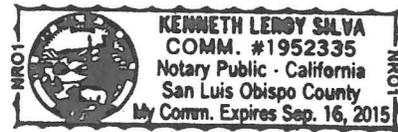
On 21 MAY 2012 before me, KENNETH LEROY SILVA NOTARY PUBLIC
(here insert name and title of the officer)

personally appeared ROBIN LYN ROSSI

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Kenneth Leroy Silva

(Seal)

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- Individual(s)
 Attorney-in-Fact
 Corporate Officer(s) _____ Title(s) _____
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 Partner - Limited/General
 Trustee(s)
 Other: _____

representing: _____
Name(s) of Person(s) or Entity(ies) Signer is Representing

Additional Information

Method of Signer Identification

Proved to me on the basis of satisfactory evidence:
 form(s) of identification credible witness(es)

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Page # _____ Entry # _____

Notary contact: _____

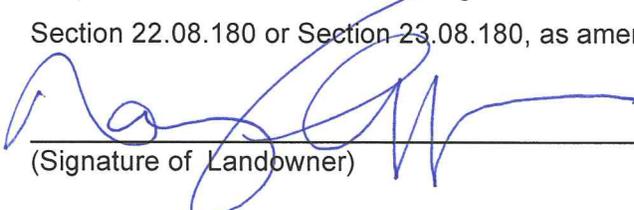
Other

Additional Signer(s) Signer(s) Thumbprint(s)

SUPPLEMENT B: CONSENT OF LANDOWNER FOR INSPECTIONS & RECLAMATION

We the undersigned, the owners of land located at 16805 El Camino Real, Atascadero (Site of Proposed Quarry Extension)

Assessor's Parcel Number(s) 070-131-003 (DKF LLC), upon which Hanson Aggregates is to conduct a mining operation, and for which application Hanson Aggregates (Name of Operator) for approval of a Reclamation Plan is being made, and of which application this consent is a part, do hereby irrevocably grant to the operator, the State of California, County of San Luis Obispo or any of its authorized agents, the right to enter upon the land affected by the operator for annual Surface Mining and Reclamation Act (SMARA) inspections and for the purpose of backfilling, planting and reclamation, or for inspection and evaluation as to the satisfactory completion of such measures in accordance with the provisions of the Surface Mining and Reclamation Act of 1975 and San Luis Obispo County Code, Section 22.08.180 or Section 23.08.180, as amended.



 (Signature of Landowner)

5-20, 2012

 (Date)

Affidavit:
 State of California)
 County of) SS

I, _____, a Notary Public in and for the State of California, do hereby certify that on the _____ day of _____, 20____, before me personally appeared _____ and subscribed and swore this instrument. Witness my hand and seal this _____ day of _____, 20 ____

 Title

Signed in the County of:

INSTRUCTIONS:

1. If the land is owned by one or more persons, all owners must sign.
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3. If owned by an estate, authority for signing must be established.
4. A Notary Public must witness the signature.

State of California)
County of SAN LUIS OBISPO)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

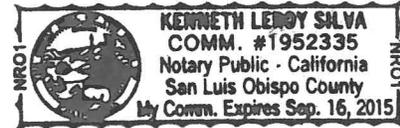
On 21-MAY-2012 before me, KENNETH LEROY SILVA NOTARY,
(here insert name and title of the officer)

personally appeared DOUGLAS CLEMENT FICIPPONI

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Kenneth Leroy Silva

(Seal)

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 Attorney-in-Fact
 Corporate Officer(s) _____ Title(s) _____

- Guardian/Conservator
 Partner - Limited/General
 Trustee(s)
 Other: _____

representing: _____
Name(s) of Person(s) or Entity(ies) Signer is Representing

Additional Information

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Proved to me on the basis of satisfactory evidence:
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Notary contact: _____

Other

Additional Signer(s) Signer(s) Thumbprint(s)

SUPPLEMENT C: MINE LOCATION AND ACCESS

(C-1) The mining site is located on the Santa Margarita, CA United States Geographic Survey (USGS) 7 ½ minute quadrangle. Attach copy of appropriate quadrangle with the mining site and the parcel(s) on which the site is located accurately plotted. (Figure 1.1-2 of Reclamation Plan)

(C-2) Longitude and Latitude: LAT: 35.25.18, LON: 120.34.36

(C-3) Describe the access route to the mining site and indicate the number of truck trips per day, week, months or year.

Access Route: (E) Private access road off El Camino Real between Hwy. 58 and Santa Barbara Road

Truck trips per day: 294 maximum (no change) Truck trips per week: _____

Truck trips per month: _____ Truck trips per year: _____

SUPPLEMENT D: GEOLOGY, SOILS, HYDROLOGY & ENVIRONMENT

(D-1) Mineral or product (to be) mined Granite and Aggregates

(D-2) Brief description of the regional geologic setting Cretaceous granitic rock in a ridge along the east side of Santa Margarita Valley - see Section 2.0 of Golder Geotechnical Report and Section 1.9 of Reclamation Plan Amendment.

(D-3) Detailed geologic description of mineral deposit (to be) mined Fine to course grained porphyritic granite cut by faults, capped by approx. 50 feet of weathered granite and 6 to 25 feet of decomposed granite.

(D-4) Using the mine site map or aerial photograph as a base, prepare a detailed geologic site map with two or more intersecting geologic stratigraphic cross sections (one perpendicular to the average site), to show the following information within the current and designated future mining and overburden disposal areas.

- | | |
|---|---|
| a. The known surface and sub-surface extent and thickness of the mineral deposit to be mined. | g. Faults with location and relative movement. |
| b. Extent and thickness of overburden (or waste rock). | h.* Additional field measurements sufficient to determine the basic rock structure and fabric. |
| c. Detailed description of basic soil types to be encountered on the mining site. | i.* Orientation of the principle rock structure and fabric. |
| d.* Geologic formations. | j.* Delineation of any rock units that can be easily weathered. |
| e.* Detailed description of all rock types to be encountered on the mine site. | k. Delineation on the cross sections of the elevation of the average and seasonal high ground table(s). |
| f.* Description (with strike and dip measurements) of bedrock within 200 feet of mining or proposed mining area(s). | l. Any other geologic information necessary to describe the mineral deposit and the geologic engineering basis for the proposed mining and reclamation plans. |

*For hard rock operations only

(D-5) Has exploratory or development drilling been used on the mining site? Yes No

If **YES**, show the location, by number, of all test holes on the "geologic site map" attached to the application. Also, for each test hole, show in feet and decimals the thickness and rock unit for each stratum overlying the mineralized zones or economic mineral deposit if the zone is discontinuous, also describe the intervening strata. Attach the report that includes the technical data for each hole that includes a table showing unit and thickness and the amount of overburden and commercial mineral deposit. See Geotechnical Report (Golder 2012)

(D-6) Attach a description of the typical soil profile(s) (from ground surface to a minimum depth of ten feet) encountered on the site. If more than one profile, show extent of each on an aerial photograph overlay.

(D-7) What is the direction of groundwater flow in the area affected by the mining or processing operations?
SE to NW in alluvial area on the East and North sides of RPA - towards Paso Robles groundwater basin.

(D-8) Describe the environmental setting of the mining site using the Environmental Description Form.
Attached.

SUPPLEMENT E: MINERAL PROCESSING & WASTE DISPOSAL

(E-1) Attach a diagrammatic sketch of the entire mineral processing system. No change to existing processing.

(E-2) Indicate if there will be any waste material result from the processing operations and how much volume. Yes No

If **YES**, how will this material be disposed of? All material will be sold or used in reclamation.

(E-3) **FOR WET PROCESSING OPERATIONS:** No change to existing processing.

a. Estimate quantity (gallons per day) and quality of water required by the (proposed) processing operation, specifying (proposed) sources of this water, methods of its conveyance to the property, and the quantity and method of disposal and used and/or surplus water.

b. Submit a diagrammatic flow chart of the process water handling system and attach a narrative explanation of the system. See Drainage Report

c. Type of collection basins used: Concrete Wood Steel Earthen

Size of basins: Existing Attach calculations for basin sizing (storm interval/intensity)

d. For earthen basins only, explain how the bottom and sides will be made impervious and the slopes stabilized to prevent erosion. Basin allows water to percolate back into groundwater. See project description

(Enviromine, May 2012), and RPA Section 3.3 (Enviromine 2012)

e. Will sludge be removed from the settling basins? Yes No

If **YES**, describe the method and frequency of sludge removal and disposal. Silt is periodically dredged and sold when market calls for super fine material. Discharge to river does not normally occur, but a SWPPP is in place in case it does discharge. WDID #3405016009.

f. Is there is any discharge from the process water system? Yes No

If **YES**, submit a Regional Water Quality Control Board approval for the project

SUPPLEMENT F: DEVELOPMENT OF THE MINE See Reclamation Plan Amendment (Enviromine 2012)

(F-1) Using the mine site map or aerial photograph as a base, provide a detailed mine development plan map and cross sections clearly detailing the following:

- a. The accurate perimeter and total acreage of the area covered by this Reclamation Plan Application.
- b. The perimeter and acreage(s) of each area designated for current or future (specify) mining, processing, stockpiling, overburden disposal or storage, waste disposal, settling ponds, water storage, and/or any other use relevant to the operation.
- c. The directions in which mining will progress, the anticipated height of any rock or soil faces or cuts and the anticipated depth of mine excavation and development. Reference benchmarks used to determine depth of excavation.
- d. Depiction of separate mining phases, if applicable. These phases should be integrated with concurrent or phased reclamation as described in Supplement "J".
- e. Indicate location of reference benchmarks used to determine depth of excavation.
- f. Any other information relevant to an understanding of Applicant's mining plans.

(F-2) Describe the development of the mining operation, including timetable for phasing and concurrent reclamation as detailed in Supplement "J".

See Section 2.5 of Reclamation Plan Amendment (Enviromine 2012) and Section 2.4 of Project Description (Enviromine 2012).

Quarry operations will extend North and West into extension area in 4 phases. Phase 1 and 2 will overlap.

(If additional space is necessary, attach additional sheets.)

(F-3) Describe the method of mining.

In-place rock is blasted to fracture and loosen material which is loaded into haul units or a conveyor to the primary and secondary crushing stations located in the Southerly portion of the RPA limits.

See Reclamation Plan Amendment (Enviromine 2012) Section 2.3.

(If additional space is necessary, attach additional sheets.)

(F-4) Describe method of soil salvage and storage for future mine reclamation. Show location(s) on plan

map and identify in field. Indicate volume and describe how soil stockpile(s) will be protected from erosion.

No permanent stockpiles are proposed. Topsoil (top 6" of surface soil) will be salvaged and stockpiled in the Northeast quadrant of pit during Phases 1 and 2. Stockpiles will be maximum of 50-feet in height and slopes no steeper than 2:1. These will be seeded to limit erosion, and BMPs will be applied. Overburden will be retained for reclamation or sold. See RPA (Enviromine 2012) and Project Description.

(If additional space is necessary, attach additional sheets.)

(F-5) Describe method of removing, handling and storing topsoil.

See above. Refer to RPA (Enviromine 2012) Section 2.3, 2.4, and 2.5.

(If additional space is necessary, attach additional sheets.)

(F-6) What will be done with non-usable material (impure, oversize, etc.) encountered during mining? If it is permanently placed, indicate what the compaction will be (in percent) and how it will it be obtained.

None anticipated. All material will be used or sold.

(If additional space is necessary, attach additional sheets.)

SUPPLEMENT G: STREAMS

(G-1) Will this operation involve the relocation, blockage, and/or alteration of any watercourse or stream?

- Yes No

If **YES**, what is the drainage area of the watershed above the operation? N/A

(G-2) If YES to (G-1) N/A

a. Have you obtained a streambed alteration agreement from the California Department of Fish and Game ? Yes No

If **YES**, Agreement # _____ and Expiration Date _____ **(Attach a copy)**

b. Have you contacted the Regional Water Quality Control Board and Army Corps of Engineers regarding their requirements?

- Yes No If **YES**, attach evidence of approvals obtained

(G-3) Will any mining and/or the placing of spoil be:

a. Within 10 feet of any watercourse or stream? Yes No

b. 100 Year Floodplain? Yes No

If **YES**, what measures will be taken to prevent this material from entering the stream or watercourse by erosion, siltation, or sliding?

No change to existing conditions. There is an existing levee embankment with riprap along the westerly side of the Salinas Channel adjacent to the processing areas to the South of the RPA.

(G-4) Have provisions been made to prevent the possible redirection of any stream into the operation?

- Yes No

If **YES**, what are they and if structures have been placed, are they engineered? _____

(G-5). If the stream supports sensitive species or resource (ex. Red legged frog, indigenous fishery), what steps will be taken to protect these species? No discharge or changes to stream is proposed.

(If additional space is necessary, attach additional sheets.)

SUPPLEMENT H: WATER, EROSION & SEDIMENTATION CONTROL

(H-1) SURFACE WATER

- a. How will surface water be handled in order to prevent its entrance into the actual excavation/mining area? Intervening ridge between mine pit and river channel - approx. 60' elevation difference.
- b. If there is off-site discharge, has a Storm Water Pollution Prevention Plan been prepared for the Regional Water Quality Control Board and their approval obtained? Yes No
If **YES**, attach evidence of the approval.

(H-2) GROUNDWATER

- a. What is the highest groundwater elevation in this area? 50' under pit floor 10' in alluvial area Date: varies
- b. What is the direction of groundwater movement in the affected area? SE to NW along river
- c. In consolidated material, what are the orientations of the major fractures or joints sets? _____
- d. Will groundwater be encountered during the course of mining (including any perched, regional or artesian flow)? Yes No
If **YES**, how will this water be handled? Small seeps occur in pit. This plus rain water is used for dust control - see Hydrogeologic Report (Golder 2012)
- e. Will the method explained in d. (above) result in discharge from the operation? Yes No
If **YES**, attach evidence of a Regional Water Quality Control Board approval.

(H-3) DATA TO BE SUBMITTED FOR SETTLING BASINS Existing basins, no changes are proposed.

- a. Surface Water Erosion Control
1. Maximum total surface area to be drained by the basin(s) _____ acres.
 2. Maximum disturbed area to be drained by the basin(s) _____ acres.
 3. Minimum retention time _____ hours.
 4. Basin sizing based on: storm? interval? intensity?
 5. Discharge Point protected from erosion? Yes No
- If **YES**, attach figure showing basin and related facilities design including erosion protected discharge point.
6. Attach calculations verifying at least adequate capacity for a 1 hour/20 year storm event.
 7. Has the Regional Water Quality Control Board approved the surface water erosion control plans? Yes No

If **YES**, attach evidence of approval.

b. Quarry Dewatering

1. The maximum anticipated discharge is _____ GPM; _____ MGD.
2. Minimum retention time in the pit sump or settling basin(s) _____ hours.
3. Will the method outlined in (H-2d. above) result in a discharge from the operation?
 Yes No

If **YES**, show location of collection basins for settling and neutralization on the mining plan. Also, attach evidence of a Regional Water Quality Control Board and Army Corps of Engineer's approval.

c. Sludge

1. Will sludge be removed from the settling basins? Yes No

If **YES**, describe the method and frequency of sludge removal and disposal. If there is a potential for hazardous material to be located in the basins it must be tested by a state certified laboratory and appropriate treatment established. (Locate disposal site(s) on the Mine Development Plan).

Silt fines are removed and sold when market is available.

2. If sludge is not to be removed, describe method to be used to reclaim settling basins after reaching their design capacity. _____

3. Attach both cross-section and plan views of the proposed settling basin(s) (or pit sump) and specify the length, width, depth, slope ratios and sludge storage capacity.

SUPPLEMENT I: PUBLIC & PRIVATE WATER SUPPLY INFORMATION

(I-1) List all public water supplies within three (3) miles of the closest discharge point of the proposed mining operation. Key and locate each public source on the USGS quadrangle. See attached map.

KEY	NAME	ADDRESS	TYPE OF SUPPLY
1	Garden Farms	17005 Walnut Ave, Atascadero	Public/Dom
2	AMWC	Santa Barbara Road, Atascadero	Public/Dom

(I-2) List all private sources of water supply on and within 1,000 feet of the mining area. Key and locate each source on the USGS quadrangle or mine development plan map.

KEY	NAME	ADDRESS	TYPE OF SUPPLY
	None known - only seepage pond		Non-potable

SUPPLEMENT J: MINE RECLAMATION PROPOSAL

RECLAMATION PLAN MAP INSTRUCTIONS

(J-1) Using the mine site map or aerial photograph as a base, provide a detailed reclamation plan map and cross sections to show the following:

- a. The areas covered by the plan.
- b. Mining and reclamation phase boundaries.
- c. Location of all drainage features, including ditches, ponds, berms, dikes, stream diversions, and natural drainages.
- d. Indicate the finished grade and profiles after reclamation.
- e. Areas to be revegetated, mulched, resoiled, decompacted or fertilized.
- f. All other pertinent reclamation information that is discussed in J-2 and can be shown graphically.

RECLAMATION NARRATIVE INSTRUCTIONS: See RPA (Enviromine 2012)

(J-2) Attach a "reclamation narrative" describing the proposed methods of reclamation, their phasing and timing, to be used in bringing the reclamation of the affected area to its end state. Also, describe how reclamation will be integrated with the mining plan (Supplement "F"). Include in the discussion those of the following topics which are applicable to the particular mine being reclaimed:

- a. Backfilling, grading, and slope treatments.
- b. Stabilization of all slopes. Include mined area, permanent waste dumps, tailings, settling ponds, etc. (Provide geotechnical stability analysis if final slope approaches the critical gradient.)
- c. Removal, disposal, or utilization of residual equipment, structures, refuse, etc.
- d. Control of contaminants, (if applicable) especially with regard to surface runoff and groundwater.
- e. Removal or minimization of residual hazards.
- f. Treatment of streambeds and streambanks to control erosion and sedimentation.
- g. Rehabilitation of pre-mining drainage.
- h. Resoiling, revegetation with evidence that proposed (and specified) plants can survive given the site topography, soil and climate, and given the time of year for revegetation. List species to be planted.
- i. Indicate surface preparation, plant installation and seed application rate and method,
- j. Provide revegetation performance standards if native species will be used. If reclamation is to agricultural use, provide anticipated yields, crops, etc. (See CCR Section 3707 State mining & Geology Board Reclamation Regulations)
- i. All other aspects of the proposed reclamation plan.

(J-3) If this plan does not provide for revegetation on all or part of the area, describe in detail alternate procedures proposed to prevent soil erosion and/or siltation.

Revegetation of quarry floor is not proposed, as the floor will fill seasonally with drainage from pit area.

Overtime, siltation will occur and some vegetation may eventually take hold, but no erosion will be discharged outside the quarry pit.

(J-4) Prepare a detailed cost estimate, based on the financial assurance guidelines adopted by the state

