APPENDIX 3

Riverside County Conditions of Approval – RP110 and SMP108

PACIFIC CLAY – RECLAMATION PLAN 112 BOUNDARY – MINOR AMENDMENT

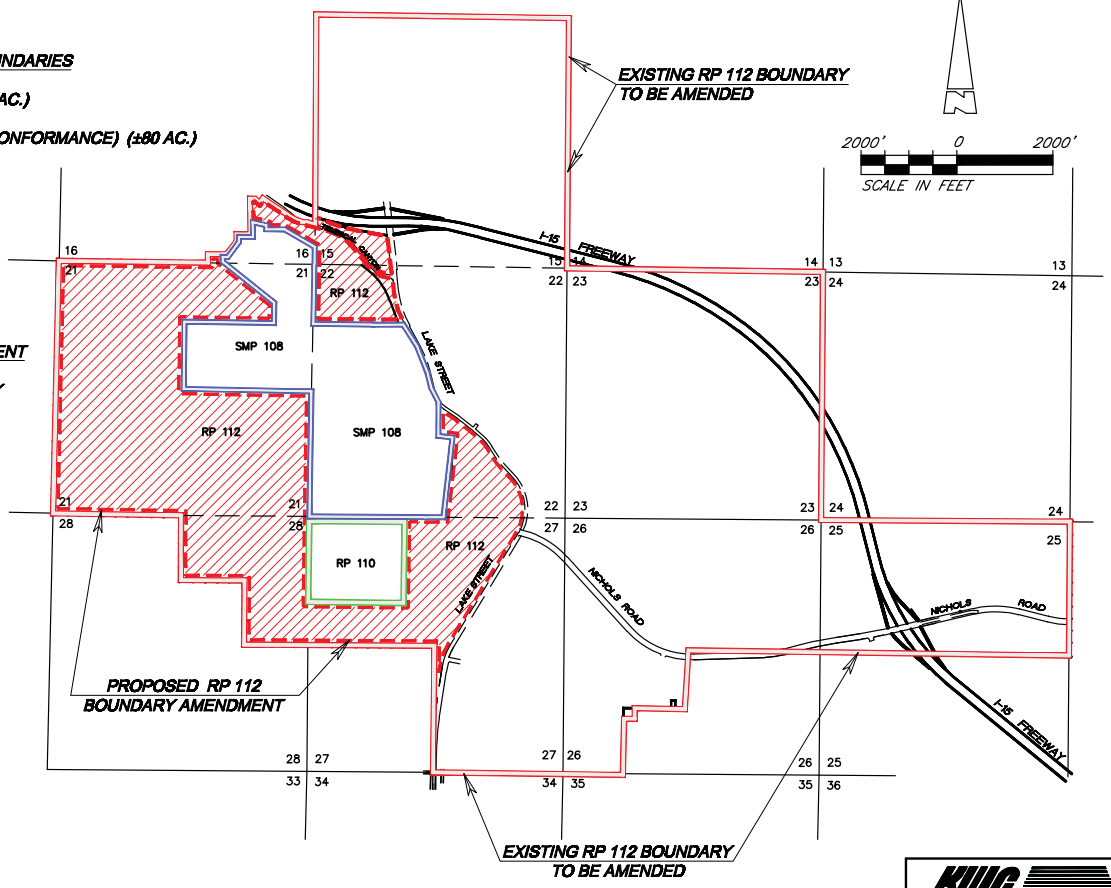
WITHIN TOWNSHIP 5 SOUTH, RANGE 5 WEST CITY OF LAKE ELSINORE

CURRENT SMP & RP BOUNDARIES

- SMP 108 (1978 + 1995) (±381.3 AC.)
- RP 110 (2005 - SUBSTANTIAL CONFORMANCE) (±80 AC.)
- RP 112 (1978) (±3,457 AC.)

PROPOSED RP BOUNDARIES - MINOR AMENDMENT

- PROPOSED RP 112 BOUNDARY AMENDMENT (PAC CLAY) (±939.5 AC.)



2-2-2011

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Permit Number	Condition Number	Condition
RP 108	1	A minimum of one on-site parking space for each two employees on tile largest shift, plus one on-site parking space for each vehicle kept in connection with the use shall be provided in accordance with Section 18.12(c), Riverside County Ordinance No. 348
RP 108	2	The easterly boundary of the project area shall be posted with No Trespassing signs no farther than 100 feet apart. Said No Trespassing signs shall be of a size, material and message approved by the Planning Director and shall be maintained to the completion of the project.
RP 108	3	The permittee shall comply with spark arrestor requirements of the Public Resource Code, Section 4442, for equipment used on the premises other than turbrocharged vehicles and vehicles designed and licensed for highway use.
RP 108	4	There shall be a fence erected along the easterly boundary delineated as "Mining Site" on the approved Exhibit "A". Said fence shall consist of a minimum of three (3) strands of barbed wire on steel posts approximately five (5) feet in height and shall be maintained at all times during the operation permitted hereby.
RP 108	5	The operator or owner, before commencing operations, shall be insured to the extent of $100,000/300,000 subject to the approval of County Counsel against liabilities arising from production or activities or operation incident thereto conducted or carried on or under or by virtue of any law or ordinance and such insurance shall be kept full force and effect during the period of such operation. Evidence of said insurance shall be presented to the Land Use Division of the Riverside County Department of Building and Safety within six months of final approval of this permit.
RP 108	6	All operations shall be conducted in compliance with the Riverside County Air Pollution Control District (Now SCAQMD) and the State Water Quality Control Board.
RP 108	7	All roads, driveways and mining areas shall be kept wetted while being used or shall be treated with oil, or other palliative, to prevent the emission of dust.

Permit Number	Condition Number	Condition
RP 108	8	The permittee shall submit a landscaping plan to the Planning Department to be included as part of the reclamation plan. Said plan shall indicate the genus, size, and species of all proposed landscaping and shall be consistent with the natural environment. Said landscaping plan shall indicate phasing to ameliorate any visual impacts resulting from the progression of the mining operations.
RP 108	9	Operations shall be confined to the property, other than maintenance, to the hours between 6:00am and 10:00pm, of any day, except those operations that are located not less than 300 feet from the outer boundary of such property.
RP 108	10	Mining operations and practices will comply with the safety requirements of MSHA, OSHA, the State Division of Industrial Safety, and California Mine Safety Orders.
RP 108	11	The permittee shall, during the proposed mining operation, ensure that offsite storm run-off through the property outlets at substantially the same location as exists under natural conditions.
RP 108	12	All loaded trucks egressing from the subject property shall be properly trimmed so as to prevent spillage onto the public roadway. In the event that spillage onto the roadway does occur, said spillage shall be removed immediately from road right of way.
RP 108	13	The establishment of permanent rock crushing, concrete batching, or similar specialty plants will require the submission of the plot plan for approval.
RP 108	14	Upon the termination of each phase (Blk A-T) of the operation, final slopes, overburdened stockpiles, abandoned spoil piles, and the general premises shall be graded and smoothed so as to control erosion, prevent the creation of potentially dangerous areas and present a neat and orderly appearance. All spoil piles shall have a stabilized angle of repose. No pit excavation shall remain with a slope exceeding one vertical to two horizontal unless shown to be stable with a factor of safety of 1 ½ by an engineering, geology, or soils engineering evaluation. All grades and slopes shall be oriented to control drainage and to conform to the natural drainage and natural slopes for the area.

Permit Number	Condition Number	Condition
RP 108	15	The permittee shall accept responsibility for reclaiming the minded lands in accordance with the reclamation plan and within the time limits of said plan, and in conformance with reclamation requirements according to State and County guidelines.
RP 108	16	The permittee shall apply for a Special Inspection Permit from the Building Director, which shall be accompanied by a filing fee of $75.00 at least 15 days before the conclusion of each state of reclamation, or each year, whichever comes first. The application shall include a written report which specifies how the reclamation of the site conforms or deviates from the reclamation plan.
RP 108	17	All work areas and parking areas shall be maintained free of flammable vegetation and debris at all times.
General Conditions		
RP 110	1	SMP- Project Description The use hereby permitted is for the installation and replacement of new sand washing equipment with adjacent ancillary facilities.
RP 110	2	SMP- Hold Harmless The applicant/permittee or any successor-in-interest shall defend, indemnify, and hold harmless the County of Riverside (COUNTY), its agents, officers, or employees from any claim, action or proceeding against the COUNTY, its agents, officers, or employees to attack, set aside, or void, or annul an approval of the COUNTY, its advisory agencies, appeal boards, or legislative body concerning RCL00110S1. The COUNTY will promptly notify the applicant/permittee of any such claim, action or proceeding against the COUNTY and will cooperate fully in the defense. If the COUNTY fails to promptly notify the applicant/permittee of any such claim, action or proceeding or fails to cooperate fully in the defense, the applicant/permittee shall not, thereafter, be responsible to defend, indemnify, or hold harmless the COUNTY.
RP 110	3	SMP- Definitions The words identified in the following list that appear in all capitals in the attached conditions of RECLAMATION PLAN No. 00110, SUBSTANTIAL CONFORMANCE NO. 1, shall be henceforth defined as follows: APPROVED EXHIBIT NO. “A” = Exhibit No. A, RECLAMATION PLAN NO. 00110, SUBSTANTIAL CONFORMANCE NO. 1, dated 5/17/2005

Permit Number	Condition Number	Condition
BS Grade Permit		
RP 110	1	SMP G-1 Building/Grading Permits The provisions of all Riverside County Ordinances shall apply during the life of the Surface Mining Permit/Reclamation Plan/Substantial Conformance. Specifically Ordinance 457 shall apply for all building permits and other construction within the Surface Mining Permit/Reclamation Plan/Substantial Conformance boundaries unless specifically regulated by another approved condition of this case.
RP 110	3	SMP G-5 NPDES/SWPPP The operator must submit a Notice of Intent (NOI), develop and implement a Storm Water Pollution Prevention Plan (SWPPP), a Monitoring Program and Reporting Plan for the Surface Mine/Reclamation Plan Site.
RP 110	4	SMP G-9 Geotech/Soils Report Prior to the issuance of a building permit, a Geotechnical Soils Report shall be submitted to the Building and Safety Department for review and approval. All grading for structures shall be in conformance with the recommendations of the geotechnical soils reports as approved by Riverside County. The geotechnical/soils, compaction and inspection reports will be reviewed in accordance with the RIVERSIDE COUNTY GEOTECHNICAL GUIDELINES FOR REVIEW OF GEOTECHNICAL AND GEOLOGIC REPORTS.
RP 110	5	SMP G2.5 2:1 Slope Ratio Graded slopes shall be limited to a maximum steepness ration of 2:1 (horizontal to vertical) unless otherwise approved.
RP 110	6	SMP G-11 Slope Stablity Report A slope stability report shall be submitted and approved by the County Geologist for all proposed cut or fill slopes steeper than 2:1 (horizontal: vertical) or over 30 feet in vertical height – unless addressed in a previous report.
RP 110	7	SMP G-12 Drainage Design Q-100 All drainage facilities shall be designed in accordance with Riverside County Flood Control & Water Conservation District's requirements to accommodate 100 year storm flows.

Permit Number	Condition Number	Condition
RP 110	8	SMP G2.8 Minimum Drainage Grade Minimum drainage grade shall be 1% except on Portland cement concrete where 0.35% shall be the minimum.
RP 110	9	SMP G-4 Property Line Setbacks In all areas were excavation/grading takes place, there shall be a graded setback from all property lines of not less than 50 feet from a cut/fill Slope. Within this setback area, the safety berm can be installed.
RP 110	10	SMP-G2.14 Easements & Access Prior to the issuance of the surface mining permit, it shall be the responsibility of the applicant to obtain any necessary proposed or required easements and/or permissions necessary for access to the site for excavating and/or grading.
RP 110	11	SMP-G2.22 PVT RD GDG PMT Construction a private road requires a grading permit.
RP 110	12	SMP-G3.1 NO B/PMT W/O Prior to issuance of any building permit, the property owner shall obtain a grading permit and/or approval to construct from the Grading Division of the Building and Safety Department.
RP 110	13	SMP- Corrections/Comments Use for corrections or approval memos
RP 110	14	SMP G-20 Safety Berms A four (4) foot, minimum vertical height, Safety Berm shall be installed at the top of all cut/fill slopes at least three (3) feet in width.
RP 110	15	SMP Benches & Slopes During the mining operation, on the working faces of the quarry wall, benches shall be installed at no more than 30 feet in vertical height intervals or not higher than the equipment being used can reach to extract material. Each bench shall be a minimum of 15' in width. Working slopes below benches shall not be steeper than 1:1(horizontal: vertical). Finished slopes

Permit Number	Condition Number	Condition
		may not exceed 2:1. All working slopes must be scaled of loose materials before moving to a new area. Warning signs "Danger - Falling Rock" must be installed at the base of all slopes. Where a slope is not actively being mined, barricades not less than 50 feet from the toe of the slope, must be in place to prevent access by vehicle.
RP 110	16	SMP G-18 Quarry Signs Signs shall be installed at the top of all manufactured slopes (cut or fill), at intervals not greater than 100 lineal feet. Each sign shall read "Danger" "Open Pit Mine" "Steep Slope". Signs shall be at least 18 x 18 square with contrasting background to lettering. (ie: white background and black lettering) Perimeter signs around the approved Reclamation Plan or Surface Mine boundaries shall be installed not greater than 250 lineal feet. Each sign shall read "Danger" "Keep Out" and "Mineral Resource Zone" or "Surface Mining Operation". All signs shall be with contrasting lettering/background.
RP 110	17	SMP G-17 Trash & Debris The parcel(s) where the mine is located shall be kept free of trash (including old tires) and other debris. There shall be no importing of recyclable materials or construction debris without specific permit for that activity.
RP 110	18	SMP G-16 Contractor Equipment All non-mining equipment must be stored in a designated area permitted for "Contract Storage". A "Contractor Storage" permit must be obtained from the Planning Department prior to storage of any non-mining equipment.
RP 110	19	SMP G-21 Vehicle Storage There shall be no storage of passenger vehicles, campers, travel trailers or other personal property that is not related directly to the mining of minerals at this site.
RP 110	20	SMP G-22 Temporary/Portable Office Temporary/portable office trailers are permitted providing they are installed after a building permit is obtained. Other structures for night watchman security must be installed or constructed by building permit.

Permit Number	Condition Number	Condition
RP 110	21	SMP G-23 Importing Concrete There shall be no importing and/or storage of used concrete, asphalt or other inert construction materials for recycling without the specific approval of the Planning Department.
RP 110	22	SMP G-24 Importing/Storing Of There shall be no importing and/or storage of any cut vegetation without specific approval of the Planning Department and the Environmental Health Department.
RP 110	23	SMP Annual Financial Assurance Annual Financial Assurance Review Each year after the 1st year of land disturbed under this Surface Mining Permit, Reclamation Plan, Interim Management Plan, or Substantial Conformance, the operator shall review the financial assurance on file with the County of Riverside. The operator shall submit a written report to the Building & Safety Department indicating any changes to disturbed land or other conditions that could increase or decrease the amount of financial assurance. This report shall also indicate the financial assurance has been reviewed and include a new cost estimate if needed as described below. After the financial assurance review, if the total dollar amount indicates an increase or decrease of more or less than five (5) percent of the financial assurances on file, the operator shall submit a new cost estimate to the Building & Safety Department taking into consideration all information addressed in the California Resource Code Section 2773.1 (a) (3) using the forms provided by the California Department of Conservation's internet website. At last every five (5) years after the initial land is disturbed, the operator must submit a new cost estimate taking into consideration all information addressed in the California Resource Code section 2773.1 (a) (3) using the forms provided by the California Dept. of Conservation's internet web site.
RP 110	24	SMP G-4 Property Line Setbacks There shall be a graded setback from all property lines of not less than 50 feet from all cut/fill slopes. Within the setback area, the four foot vertical height safety berm can be installed. In all other areas within the boundaries of the Reclamation Plan/Surface Mining Permit where mining will not take place, the provisions of Riverside County Grading Ordinance 457 shall be followed

Permit Number	Condition Number	Condition
RP 110	25	SMP G-8 Building/Grading Permits Building permits are required for all structures as identified in Ordinance 475. Grading permits are not necessarily required, however, prior to issuance of any building permit, the operator shall obtain approval to construct from the Grading Division of the Building & Safety Department. A Substantial Conformance may be required prior to the
RP 110	26	SMP G-2 Annual Report Information The operator shall submit to the Building & Safety Department with the annual report the following information: 1. New topography maps detailing disturbed land and proximity to permit boundaries and property lines. 2. Certify maximum depth of excavated areas. 3. Provide quantity in cubic yards and tons of minerals mined during the reporting period. 4. Certify all excavated areas are within the limits of the Surface Mining Permit/Reclamation Plan. 5. Provide data indicating any reclaimed land during the reporting period. 6. A certified engineering geologist or geotechnical engineer shall inspect all excavated slopes within the permitted boundaries (active and inactive) for slope stability. The operator shall provide to B&S a copy of the inspection report. Note: At least every three years of operation, the operator shall provide to B&S, aerial topography showing incremental and total changes to excavations. This will include cross-sectional maps showing berms, slope angles and benches of all excavations.
Planning Department		
RP 110	1	SMP – Comply with Ordinance/Exhibits The development of these premises shall comply with the standards of Ordinance Nos. 348 and 555 and all other applicable Riverside County ordinances and state and federal codes. The development of the premises shall conform substantially with that as shown on the Mining and Reclamation Plans and Project Description, unless otherwise amended by these conditions.
RP 110	2	SMP – Causes for Revocation In the event the use hereby permitted under this surface mining permit, a) ceases operation for a period of one (1) year or more (unless an Interim Management Plan is approved in accordance with Ordinance No. 555), b) is found to be in violation of the terms and conditions of this permit, c) is found to have been obtained by fraud or perjured testimony, or d) is found to be detrimental to the public health, safety and welfare, or is a public nuisance, this permit shall be

Permit Number	Condition Number	Condition
		subject to the revocation procedures in Section 18.31 of Ordinance No. 348 and/or the applicable section of Ordinance No. 555.
RP 110	3	SMP – Condition Review Fee All subsequent submittals required by these conditions of approval, including but not limited to a revegetation plan or mitigation monitoring shall be reviewed, with payment therefore made on an hourly basis as a "research fee," or other such fee as may be in effect at the time of submittal, as required by Ordinance No. 671.
RP 110	5	SMP- Spark Arrestor Required During the life of the permit, the permittee shall comply with spark arrestor requirements of the Public Resources Code, Section 4422, for all equipment used on the premises other than turbocharger vehicles designed and licensed for highway use.
RP 110	6	SMP – Dust Prevention Measure During the life of the permit, all roads, driveways and stockpile areas shall be kept continuously wetted while being used, and shall be treated with EPA approved dust suppressants to prevent emission of dust. Non-hazardous soil stabilizers shall be applied to all stockpiles that remain inactive for 96 hours or more.
RP 110	7	SMP - Comply with Safety Requirements During the life of the permit, stockpiling operations shall comply with the Safety requirements of MSHA, OSHA, the State Division of Industrial Safety, and California Mine Safety Orders.
RP 110	8	SMP – Runoff Outlets The permitted shall, during the proposed stockpiling operations, ensure that off-site storm runoff through the property outlets are in substantially the same location as exists under the natural conditions and that they existing watercourses do not pond or stagnate at any time during the stockpiling operation.
RP 110	12	SMP – Ceased Operation Effect In the event the use nearby permitted ceases operation for a period of one (1) year or more, this approval shall become null and void, unless an Interim Management Plan is submitted to the Planning Director within 90 days of becoming idle, as specified in Riverside County Ordinance No. 555. The applicant shall be responsible for the submission of the Interim Management Plan and

Permit Number	Condition Number	Condition
		remains responsible for the implementation of the Reclamation Plan should the permit become null and void.
RP 110	13	SMP Stockpile Protection Stockpiles shall be protected against water and wind erosion by covering with burlap or other Riverside County approved material, wetting, and/or temporary hydroseeding with native plants species.
RP 110	16	SMP – Comply with SCAQMD Rules The permittee shall comply with all applicable South Coast Air Quality Management District (SCAQMD) rules and regulations, including but not limited to, New Source Review Regulations, Rule 403 for fugitive dust, and PM10 requirements.
RP 110	18	SMP NPDES Compliance The permittee shall comply with all of the applicable requirements of the National Pollution Discharge elimination System (NPDES) and shall conform to NPDES Best Management Practices for Stormwater Pollution Prevention Plans during the life of this permit.
RP 110	19	SMP – Suspend Operation for Wind All stockpiling operations, including excavating, curshing, screening and related material loading and hauling, shall be suspended when wind speeds (as instantaneous gust) exceed 20 miles per hour. All stockpiling operations shall be suspended during first and second stage smog alerts.
RP 110	20	SMP – Signs Need Permit No signs are approved pursuant to this use. Prior to the installation of any on-site advertising or directional signs, a signing plan shall be submitted to and approved by the Riverside County Planning Department, pursuant to the requirements of Section 18.30.a (1) of Riverside County Ordinance No. 348 (Plot Plans not subject to the California Environmental Quality Act and not subject to review by any governmental agency other than the Planning Department), and all necessary building permits shall be obtained from the Riverside County of Building and Safety.
RP 110	21	SMP – Responsible to Reclaim The permittee (mine operator and/or land owner) shall accept responsibility for reclaiming the mine lands in accordance with the reclamation plan and within the time limits of said plan and in conformance with reclamation requirements and standards according to State of California Surface Mining and Reclamation Act and Riverside County Ordinance No. 555 guidelines.

Permit Number	Condition Number	Condition
RP 110	27	SMP – 90 Days to Protest The project applicant has 90 days from the date of approval of these conditions to protest, in accordance with the procedures set forth in Government Code Section 66020, the imposition of any and all fees, dedications, reservations and/or other exactions imposed on this project as a result of this approval or conditional approval of this project.
RP 110	28	USE – ORD 810 O S Fee (1) In accordance with Riverside County Ordinance No. 810, to assist in providing revenue to acquire and preserve open space and habitat, an Interim Open Space Mitigation Fee shall be paid for each development project or portion of an expanded development project or to be constructed in Western Riverside County. The amount of the fee for commercial or industrial development shall be calculated on the basis of "Project Area" which shall mean the net area, measured in acres, from the adjacent road right-of-way to the limits of the project development. Any area identified as "NO USE PROPOSED" on the APPROVED EXHIBIT shall not be included in the Project Area.
RP 110	1	Use – Sub of Revised /New SMP Within six (6) months from the date of approval of this Substantial Conformance, the applicant shall submit for approval a revised SMP or New SMP, as appropriate, that will cover all areas that have been minded, are currently minded and may be mind in the future. This submission shall indicate all existing or proposed facilities and shall cover all areas of the site that may, at any point in the future, be mined.
RP 110	21	SMP – ORD 810 OS Fee SMP (2) Prior to the issuance of a grading permit for Reclamation Plan No. 110S1, the permit holder shall comply with the provisions of Riverside County Ordinance No. 810, which requires the payment of the appropriate fee set forth in the Ordinance. The amount of the fee shall be based on the "Project Area" as defined in the Ordinance and afore - mentioned Condition of Approval. The Project Area for the subject surface mining permit is calculated to be 10 acres. In the event Riverside County Ordinance No. 810 is rescinded and/or superceded by a subsequent mitigation fee ordinance, payment of the appropriate fee set forth in that ordinance shall be required.
RP 110	2	Use – Fee Balance Prior to issuance of building permits, the Planning Department shall determine if the deposit based fees for the project are in a negative balance. If so, any outstanding fees shall be paid by the applicant/developer.

Permit Number	Condition Number	Condition
RP 110	3	Use – ORD 810 O S Fee (2) Prior to the issuance of a certificate of occupancy, or upon building permit final inspection prior to use or occupancy for cases without final inspection or certificates of occupancy (such as an SMP), whichever comes first, the applicant shall comply with the provisions of Riverside County Ordinance No. 810, which requires the payment of the appropriate fee set forth in the Ordinance. The amount of the fee will be based on the "Project Area" as defined in the Ordinance and the aforementioned Condition of Approval. The Project Area for Reclamation Plan No. 110S1 is calculated to be 10 net acres. In the event Riverside County Ordinance No. 810 is rescinded, this condition will no longer be applicable. However, should Riverside County Ordinance No. 810 be rescinded and superseded by a subsequent mitigation fee ordinance, payment of the appropriate fee set forth in that ordinance shall be required.

APPENDIX 4

Financial Assurance Cost Estimate

SESPE
CONSULTING, INC.

468 Poli Street, Suite 2E • Ventura, California 93001

FINANCIAL ASSURANCE COST ESTIMATE

Pacific Aggregates Inc. / Pacific Clay Products

28251 Lake Street
Lake Elsinore, California

Riverside County

CA Mine IDs # 91-33-0073
(including 91-33-0020 and 91-33-0006)

June 30, 2011

Prepared for: City of Lake Elsinore
130 S. Main Street
Lake Elsinore, California 92530

Prepared by: Sespe Consulting, Inc.
468 Poli Street, Suite 2E
Ventura, California 93001
(805) 275-1515

FINANCIAL ASSURANCE COST ESTIMATE

Pacific Aggregates, Inc. / Pacific Clay Products
Lake Street Facility

June 30, 2011

Certification Statement

This Financial Assurance Cost Estimate was prepared based on:

- Public Resources Code Section 2207(a)(9) and 2773.1;
- California Code of Regulations Title 14 Section 3804;
- State Mining and Geology Board Financial Assurance Guidelines (revision dated January 16, 1997-A; July 23, 2004);
- Information obtained from Pacific Aggregates and Pacific Clay Products; and
- Conditions noted during previous site visits.

I hereby certify that:

- I am familiar with the requirements of the Surface Mining and Reclamation Act of 1975 and the Public Resources Code Section 2710;
- I have visited and am familiar with the facility;
- This Financial Assurance Cost Estimate has been prepared in accordance with good engineering practice; and
- This Financial Assurance Cost Estimate is adequate for this facility.

John A. Hecht, P.E., R.E.A.
President
Sespe Consulting, Inc.

FINANCIAL ASSURANCE COST ESTIMATE

Pacific Aggregates, Inc. / Pacific Clay Products
Lake Street Facility

June 30, 2011

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FINANCIAL ASSURANCE COST ESTIMATE

Pacific Aggregates, Inc. / Pacific Clay Products
Lake Street Facility

June 30, 2011

1.0 EXECUTIVE SUMMARY

The Surface Mining and Reclamation Act of 1975 (SMARA), as amended, and Public Resources Code Section 2710 et seq., requires surface mining operators to prepare a lead-agency-approved Financial Assurance Cost Estimate (FACE) for reclamation activities. Once the FACE is approved by the lead agency, the mine operator must provide a financial assurance mechanism to cover reclamation costs in the event that the mine is abandoned or the operator is financially unable to complete the required reclamation activities.

This Financial Assurance Cost Estimate (FACE) has been prepared for the Pacific Aggregates, Inc. / Pacific Clay Products facility located at 28251 Lake Street in Lake Elsinore, California (California Mine IDs 91-33-0073 [including 91-33-0020 and 91-33-0006]).

The following table presents the estimated reclamation costs for the site.

Table 1: Summary of Estimated Reclamation Costs

Item		Cost
Primary Reclamation Activities		$ 2,675,730
Revegetation		$ 1,134,841
Plant Structures and Equipment Removal		$ 298,595
Miscellaneous Costs		$ 15,000
Monitoring		$ 283,710
Total Direct Costs:		**$ 4,407,877**
Supervision	3.7%	$ 163,091
Profit and Overhead	7.0%	$ 308,551
Contingencies	7.0%	$ 308,551
Mobilization	3.0%	$ 132,236
Total Indirect Costs:		**$ 912,430**
Total Direct and Indirect Costs:		**$ 5,320,307**
Lead Agency Administrative Cost	10.0%	$ 532,031
Total Reclamation Estimate:		**$ 5,852,338**

2.0 BACKGROUND

The RP112 Reclamation Plan Amendment for the site calls for the merging of three (3) mine sites into a single site and presents an updated Reclamation Plan for the entire site. This Financial Assurance Cost Estimate (FACE) was prepared to address the entire site as discussed in the Reclamation Plan Amendment.

The following tasks will be accomplished as a part of reclamation:

- Mining equipment and sand and gravel processing equipment will be removed from the site;
- Oversteepened slopes will be laid back at a 2:1 (h:v) slopes;
- Mined areas will be contoured to create natural looking slopes;
- The site will be revegetated.

This cost estimate assumes that the structures associated with the clay products production facility in the northern portion of the site will be left in place for subsequent industrial use as allowed by the reclamation plan.

To ensure adequate reclamation of the site, this estimate addresses the following additional task:

- Preparation of a Phase 1 Environmental Site Assessment.

2.1 Site End Use

The proposed end use of the site is primarily Open Space with a northern portion of the site to be prepared for a subsequent industrial land use as yet to be determined.

2.2 Current and Projected Site Conditions

The site currently consists of approximately 722 acres of unreclaimed disturbed land. This area includes several active excavation areas, aggregate processing facilities, clay processing facilities, and a concrete batch plant. Appendix 1 presents various figures that show the site location and current site conditions.

Please note that the operator plans to disturb up to 20 additional acres over the next year.

2.3 Cost Estimate Calculation Methodology

This FACE is based on the remaining activities necessary to implement the Reclamation Plan. It includes the cost of required physical improvements as well as various indirect costs, including mobilization and contingencies as described by the California State Mining and Geology Board's (SMGB) *Financial Assurance Guidelines.*

Where possible, specific unit equipment and labor costs were used. The cost and unit efficiency / capacity data were obtained from the following sources:

- *RS Means Heavy Construction Cost Data, 25th Annual Edition, 2011* ("Means"). Means guides are widely used to estimate construction costs. They present material, labor and equipment costs to perform a wide variety of construction tasks. These costs are presented on a per unit basis (e.g. per square foot or cubic yard) and thus can be used to estimate the cost to complete a variety of tasks. The Means guide can be used to estimate construction costs throughout the United States using a "location factor" to adjust the costs to the specific geographic area where the activity will take place. In the calculations presented in Appendix 2 of this FACE, the location factor is presented as the "Unit Cost Adjustment" when Means values were used;
- State Prevailing Wage Rates ("SPWR") were used to determine labor rates for various job classifications. (*General Prevailing Wage Determination Made by the Director of Industrial Relations, Pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773, and 1773.1;* http://www.dir.ca.gov/dlsr/PWD/Southern.html);
- CalTrans Equipment Rates *(Labor Surcharge and Equipment Rental Rates (Cost of Equipment and Ownership),* effective April 1, 2011 through March 31, 2012) were used to determine equipment rental rates; and
- Caterpillar Handbook *(Caterpillar Performance Handbook, Edition 40*) to determine equipment capacity and cycle times.

In addition to the references listed above, third party cost estimates were obtained for the cost of seed to reclaim the site. This estimate is presented in Appendix 3.

California Division of Mines and Geology (DMG) graphs were used to calculate supervision and profit/overhead costs. These graphs are presented in Appendix 3.

3.0 PRIMARY RECLAMATION ACTIVITIES

This section presents details regarding the primary reclamation tasks and the methodology used to calculate the costs for each. Appendix 2 presents detailed calculations for each task as well as a summary of costs.

3.1 Building Demolition

As part of the primary reclamation, office buildings, maintenance shops, and various other structures will be dismantled and removed from the site.

The following buildings at the site will be removed as a part of reclamation:
- Manufacturing building (steel frame): 60’ x 130’
- Warehouse (steel frame): 40’ x 120’
- Open-walled canopy building (steel frame): 100’ x 120’
- Open-walled canopy building (steel frame): 60’ x 90’
- Maintenance shop (steel frame): 50’ x 150’
- Storage building (wood frame): 20’ x 25’
- Storage building (wood frame): 25’ x 30’
- Storage building (wood frame): 25’ x 30’
- Storage building (wood frame): 15’ x 25’
- Office building (wood and masonry): 30’ x 40’
- Modular office trailers (7 each, steel frame): Average size: 12’ x 60’

The following Means cost factors are used to estimate the cost of this task:

Building Demolition:
- Means ID – 024116.13-0500 (steel frame building demolition)
- Means ID – 024116.13-0700 (wood frame building demolition)
- Means ID – 024116.13-0650 (masonry building demolition)

These costs include loading waste material into a dump truck and transporting it to a disposal site.

Dump Charges:
- Means ID – 024119.19-0100 (building construction materials)

3.2 Concrete/Foundation Removal

As part of the direct cost of reclamation, various concrete pads and concrete building footings must be removed. The total amount of concrete to be removed is presented in the calculations in Appendix 2. It is estimated that there is a total of approximately 6,500 cubic yards of concrete to be removed.

The Caterpillar Handbook indicates a Model H90C hydraulic hammer attached to a Model 416C backhoe can demolish 90 to 160 cubic yards of non-reinforced concrete, or 50 to 80 cubic yards of reinforced concrete, within an 8 hour shift. Given that the majority of the concrete at the site is non-reinforced, an average production of 120 cubic yards per 8 hours (15 cubic yards per hour) was assumed.

At an average density of 2 tons / cubic yard, this volume of concrete weighs approximately 13,000 tons. If a 25-ton dump truck is used, it will take approximately 521 loads to remove the material. A Caterpillar 966G front end loader will be used to load the concrete pieces into the dump trucks. The material will

be hauled to the nearest landfill; therefore, the estimated cycle time (load, travel, dump, and return travel) is 1 hour. With a fleet of three trucks, it will take 174 hours to haul the material offsite. The loader will be used the entire time (174 hours) to load the demolished concrete into the trucks.

Assume one laborer will be present during the demolition and concrete removal processes to assist the operation.

CalTrans Labor Surcharge and Equipment Rental Rates (CalTrans Rates) were used to determine the rental rates for the equipment. SPWR was used to determine labor rates for equipment operators and laborers. Means was used to determine a landfill disposal fee.

3.3 Distribute Material

As part of the cost of primary reclamation, stockpiled material in various locations around the site must be distributed. This includes raw materials (sand, gravel, and clay) as well as finished aggregate products. A scraper will be used to transport some of the material to backfill mined out pits. The remaining material will be leveled and spread around with a dozer. In addition, a water truck would be used 25% of the dozer time to control dust emissions.

Finished clay products such as bricks are assumed to have value and could be sold or given away. However, to be conservative, this estimate assumes that – as a worst-case scenario – that the bricks will be used to fill in mining pits at the site and their volume is included with the other materials discussed in the previous paragraph.

Using a fleet of one (1) dozer and four (4) scrapers, the daily production would be 5,000 tons (or 625 tons per hour). To control dust emissions, a water truck will be utilized 25% of the total equipment time

CalTrans Rates were used to determine the rental cost of the dozer, scraper, and water truck. Equipment operator and truck driver hourly rates were determined from SPWR.

3.4 Establish Final Slopes

Approximately 495 acres of the site are relatively level or gently sloping. The remaining 247 acres are moderately to steeply sloping.

Using a fleet of two (2) dozers and two (2) scrapers, the estimated production rate is 5 acres per hour in the level to gently sloping areas and 1.5 acres per hour in areas with moderate or steep slopes.

To moisten the dirt and to control dust emissions, a water truck will be utilized 25% of the total equipment time.

CalTrans Rates were used to determine the hourly rental rate for equipment; hourly labor rates were determined using SPWR.

3.5 General Grading and Contouring

As a conservative estimate, it is assumed that 100% of the disturbed surface area of the site (742 acres) will be graded and contoured before revegetation.

A Caterpillar model 163H motor grader can contour three acres in one hour. This rate takes into account the typical operating speed of heavy blading (3 mph), the blade length of the grader (14 feet), the typical pass overlap of a grader (2 feet) and typical work efficiency (0.83).

To control dust emissions, a water truck will be utilized 25% of the total equipment time.

The Caterpillar Handbook was used to determine the operating capacity of the grader. CalTrans Rates were used to determine the rental cost of the grader and water truck. The hourly rate for a medium equipment operator and truck driver were determined from SPWR.

3.6 Soil Preparation

It is assumed that the entire disturbed surface area (742 acres) will be scarified to decompact surfaces to aid revegetation. This includes stockpile areas, staging areas, and unpaved roads.

The time to scarify the area using a Caterpillar model D8R dozer with a ripper attachment was calculated using information found in the Caterpillar Handbook.

To control dust emissions, a water truck will be utilized 25% of the total equipment time.

CalTrans rental rates were used to determine the rental cost of the dozer and water truck. Hourly rates for a medium equipment operator and a water truck driver were determined from SPWR.

3.7 General Site Clean Up

Trash, debris, and scrap material will be loaded into a dump truck with a front end loader and hauled to a landfill for disposal. Two laborers will assist in the process. It is assumed that the clean up activities will take one week to complete and generate 50 tons of waste material.

CalTrans rental rates were used to determine the rental cost of the loader and dump truck. Hourly rates for a medium equipment operator, truck driver, and laborers were determined from SPWR. Means was used to determine landfill disposal costs.

4.0 REVEGETATION

The site will have to be revegetated as a part of reclamation. Relatively flat and gently sloping areas will be scarified (see Section 3.6) and broadcast seeded. Steeper slopes will be hydroseeded. The following table presents the amount of area to be reseeded.

Location	Area to be broadcast seeded (acres)	Area to be hydroseeded (acres)
Pacific Clay Pits	115	77
Mountain Avenue Pit #2	50	30
Alberhill Ranch Mine	310	160

The following Means cost factors are used to estimate the cost of this task:

Building Demolition

Means ID – 329219.14-5700 Seeding, wildflower, tractor spreader
Means ID – 329219.14-5800 Seeding, wildflower, hydro or air seeding

The following seed mix will be used:

Genus Species	Common Name	Pounds per acre
Bromus carinatus	Native California Brome	8.0
Vulpia microstachys	Small Vescue	6.0
Eriogonum fasciculatum	California Buckwheat	12.0
Eriophyllum confertiflorum	Golden Yarrow	4.0
Eschscholzia californica	California Poppy	1.0
Lasthenia californica	California Goldfields	1.0
Lotus scoparius	Deerweed	4.0
Sphaeralcea ambigua	Desert-mallow	1.0
Encelia farinosa	Brittlebrush	4.0
	Total:	**41.0**

S&S Seeds has provided a quote for this seed mix. A copy of the quote is presented in Appendix 3.

Monitoring

Costs to monitor and maintain (including weed removal) the revegetation efforts are addressed in Section 7 of this document.

5.0 PLANT STRUCTURE AND ANCILLARY EQUIPMENT REMOVAL

Removal of the following items is considered part of plant structure and ancillary equipment removal activities at the site:

1. Plant structures (hoppers, crushers, conveyors, screens);
2. Retaining wall;
3. Clay processing facility equipment;
4. Fuel storage tanks; and
5. Scales.

Each of these is discussed in more detail in the following sections.

5.1 Plant and Associated Structures Removal

The plant structures at the site that will be removed as a part of reclamation include:

- Rock Crushing Plant
- Sand and Gravel Wash Plant
- Concrete Batch Plant

This estimate includes a cost for dismantling the rock crushing plant, wash plant, and concrete batch plants. Because these units are mostly steel and many of the components are portable, it is assumed that these items could easily be sold or, at a minimum, they could be delivered to a salvage company to reclaim the material in them for no cost.

An electrician would be used to deengerize the equipment prior to dismantling. A crew of laborers would be used to disassemble the equipment. A crane would be used to load the pieces onto a fleet of trucks for transport. The estimated hours to dismantle the equipment was based on information from the operator regarding how long it took to install the units.

CalTrans rental rates were used to determine the equipment rental costs. Hourly labor rates were determined using SPWR.

The cost to remove the concrete pads and footings associated with these structures is presented in Section 3.2.

5.2 Retaining Wall Removal

The soldier pile and timber lagging retaining wall located at the at the sand and gravel wash plant would be removed. This wall is approximately 20 feet high and 192 feet long with 24 individual steel beam solider piles. The wall would be removed in five foot vertical increments using a crane to remove the beams and timber as they are cut from the wall. An excavator will be used to dig away the soil as the wall is removed. A dozer would then be used to perform final grading of the wall area to eliminate any oversteepened slopes. It is estimated that it will take five days to remove the wall and one day to perform the final dozer work.

CalTrans rental rates were used to determine the equipment rental costs. Hourly labor rates were determined using SPWR.

5.3 Clay Processing Facility Equipment

Various industrial equipment associated with the clay processing facility is located at the northern portion of the site. Although the permanent buildings in this area will remain as allowed by the Reclamation Plan, a cost to remove the processing equipment (kilns, dryers, and other ancillary support equipment) is included in this estimate.

It is assumed that it will take a crew of two (2) laborers, a front end loader operator, and a crane operator one (1) week to dismantle the equipment and load it onto a dump truck. It will take 8 hours for a dump truck operator 8 hours to haul the waste to a landfill.

CalTrans rental rates were used to determine the rental cost of the loader, crane, and dump truck. Hourly rates for a medium equipment operators, truck driver, and laborers were determined from SPWR. Means was used to determine landfill disposal costs.

5.4 Fuel Storage Tank Removal

There are three (3) underground storage tanks (UST) and two (2) aboveground storage tanks (AST) at the site. This includes:

- 1,000-gallon gasoline UST
- 2,000-gallon diesel fuel UST
- 10,000-gallon diesel fuel UST
- 10,000-gallon diesel fuel AST
- 10,000-gallon diesel fuel AST

The following Means cost factors are used to estimate the cost for removal of this tank:

Storage Tank Removal / Disposal

Means ID – 026510.30-0130
- Tank removal / loading (9,000 – 12,000 gallon tank)

Means ID – 026510.30-0320
- Remove sludge, water, product (9,000 – 12,000 gallon tank)

Means ID – 026510.30-0390
- Offsite sludge disposal

Means ID – 026510.30-0403
- Inert tank with dry ice (1.5 lbs / 100 gallon of tank capacity)

Means ID – 026510.30-1029
- Haul tank to certified salvage dump (9,000 – 12,000 gallon tank)

For simplicity, and to be conservative, following assumptions were used when calculating the tank removal costs:
- The costs to remove the ASTs were calculated using the UST costs (which are more conservative because it costs more to remove a UST).
- The cost to remove the 1,000 and 2,000 gallon USTs were calculated using the larger (9,000 – 12,000 gallon) tank removal costs.

The cost to remove the concrete associated with the storage tanks is included in Section 3.2 ("Concrete and Foundation Removal").

This estimate assumes that the lead agency oversight cost presented in Section 7 addresses associated regulatory costs such as permitting.

5.5 Remove Weigh Scales

There are two weigh scales at the site to weigh incoming and outgoing trucks. These scales will have to be removed as a part of reclamation. Assume that a 40-ton crane will be used to load the scales onto a flat bed truck which will transport them to a landfill for disposal and two laborers will assist in the process.

CalTrans rental rates were used to determine the rental cost of the loader and dump truck. Hourly rates for a medium equipment operator, truck driver, and laborers were determined from SPWR. Means was used to determine landfill disposal costs.

6.0 MISCELLANEOUS COSTS

This estimate assumes that a Phase I Environmental Site Assessment will be prepared to assist the lead agency in ensuring that necessary environmental issues have been addressed and document the condition of the site.

In addition, a cost is assumed to perform minor site improvements such as repairing fencing, gates, and signs.

7.0 MONITORING/MAINTENANCE

The Reclamation Plan calls monitoring and weed control to ensure that revegetation is successful and meets the performance criteria. This includes using mechanical and chemical methods to remove and control non-native invasive species twice each year. In addition, annual reports must be prepared and submitted to the lead agency.

The monitoring and maintenance cost is estimated to be 25% of the revegetation cost presented in Section 4.0.

8.0 INDIRECT COSTS

Supervision

Project inspection and supervision is usually performed by a consultant or staff member with experience in reclamation of disturbed lands. Management activities include but are not limited to recommending change orders, verifying completed work, and verifying compliance with project specifications. The cost factor for management is based on the Division of Mines and Geology's Reclamation Management graph (see Appendix 4).

Profit and Overhead

In the event that a third party must be retained to do the reclamation work, profit and overhead costs must be added to the total reclamation cost estimate. Profit and overhead are not included in the reclamation cost sheets. The cost factor for profit and overhead is based on the Division of Mines and Geology's Profit and Overhead graph (see Appendix 4).

Contingencies

Contingency costs are included in the financial assurance estimates to provide for project uncertainties and unexpected natural events. A contingency cost of 7% of the total direct cost of reclamation is assumed in this FACE.

Mobilization

Mobilization costs are required to move equipment to the project site for reclamation activities. These costs normally range from one to five percent of the total direct cost of the reclamation activities and vary depending upon the site location. A mobilization cost of 3% of the total direct cost of reclamation is assumed in this FACE.

Lead Agency Administrative Cost

An administrative cost of 10% of the total direct and indirect costs has been included in the FACE to account for lead agency costs to implement the Reclamation Plan.

APPENDIX 1

FIGURES

Please see Figures 1-3 of RP112 Reclamation Plan Amendment

APPENDIX 2

CALCULATIONS

Summary of Costs

06/30/11

Executive Summary

Item		Cost	
Primary Reclamation Activities		$	2,675,730
Revegetation		$	1,134,841
Plant Structures and Equipment Removal		$	298,595
Miscellaneous Costs		$	15,000
Monitoring		$	283,710
Total Direct Costs:		**$**	**4,407,877**
Supervision	3.7%	$	163,091
Profit and Overhead	7.0%	$	308,551
Contingencies	7.0%	$	308,551
Mobilization	3.0%	$	132,236
Total Indirect Costs:		**$**	**912,430**
Total Direct and Indirect Costs:		**$**	**5,320,307**
Lead Agency Administrative Cost	10.0%	$	532,031
Total Reclamation Estimate:		**$**	**5,852,338**

Detailed Summary

Task		Cost
Primary Reclamation Activities		
Task P1 - Building Demolition	$	263,721
Task P2 - Concrete Removal	$	763,613
Task P3 - Distribute Material	$	1,223,982
Task P4 - Establish Final Slopes	$	294,924
Task P5 - General Grading and Contouring	$	45,389
Task P6 - Soil Preparation (Decompact / Scarify)	$	63,904
Task P7 - General Site Clean Up	$	20,198
Subtotal:	$	2,675,730
Revegetation	$	1,134,841
Plant Structure and Ancillary Equipment Removal		
Task S1a - Concrete Batch Plant Removal	$	42,529
Task S1b - Rock Plant Removal	$	46,133
Task S1c - Wash Plant Removal	$	122,484
Task S2 - Retaining Wall Removal	$	27,564
Task S3 - Clay Processing Equipment Removal	$	22,146
Task S4 - Fuel Tank Removal	$	30,590
Task S5 - Scale Removal	$	7,150
Subtotal:	$	298,595
Miscellaneous	$	15,000
Monitoring	$	283,710

Task P1 - Building Demolition

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Task Cost Summary

Item	Cost
Equipment Cost	$ 109,908
Labor Cost	$ 94,207
Other Costs	$ 59,606
Total Cost:	**$ 263,721**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Building Demolition (metal frame)*	Crawler Loader 2 Dump Trucks	701,820	Cubic Feet	$ 0.14	105.9%	$ 104,052
Building Demolition (wood frame)**	Crawler Loader 2 Dump Trucks	27,500	Cubic Feet	$ 0.14	105.9%	$ 4,077
Building Demolition (masonry)***	Crawler Loader 2 Dump Trucks	12,000	Cubic Feet	$ 0.14	105.9%	$ 1,779
					Total:	**$ 109,908**

*Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0500.
**Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0700.
***Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0650.

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Building Demolition (metal frame)*	Labor Foreman 2 Laborers 1 Medium Equip. Operator 2 Truck Drivers	701,820	Cubic Feet	$ 0.12	105.9%	$ 89,187
Building Demolition (wood frame)**		27,500	Cubic Feet	$ 0.12	105.9%	$ 3,495
Building Demolition (masonry)***		12,000	Cubic Feet	$ 0.12	105.9%	$ 1,525
					Total:	**$ 94,207**

*Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0500.
**Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0700.
***Source: *RS Means Heavy Construction Cost Data, 2011:* 024116.13-0650.

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Waste Disposal	Landfill tipping fees	686	Tons	82	105.9%	$ 59,606
					Total:	**$ 59,606**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0100

Assumptions and Calculations

Volume of structures (cu. ft.)	Size	Construction
117,000	60' x 130' x 15' Manufacturing Building	Metal
96,000	40' x 120' x 20' Warehouse	Metal
180,000	100' x 120' x 15' Canopy Building	Metal
81,000	60' x 90' x 15' Canopy Building	Metal
187,500	50' x 150' x 25' Maintenance Building	Metal
5,000	20' x 25' x 10' Storage Building	Wood
11,250	25' x 30' x 15' Storage Building	Wood
7,500	25' x 30' x 10' Storage Building	Wood
3,750	15' x 25' x 10' Storage Building	Wood
12,000	30' x 40' x 10' Storage Building	Wood/Masonry
40,320	12' x 60' x 8' modular office trailers (7 each)	Metal
701,820	Subtotal Metal Frame	
27,500	Subtotal Wood Frame	
12,000	Subtotal Masonry Frame	
741,320	Total, all types	

95%	Assume buildings are 95% empty space when standing
37,066	Volume of building after demolition (cu. ft.)
1,373	Volume of building after demolition (cu. yd.)
0.50	Density of building material waste (ton/cu. yd.)
686	Weight of building material waste (tons)

Means costs include 20 mile haul to landfill.
Ignore resale or salvage value of materials (to be conservative).

Task P2 - Concrete Removal

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 92,126
Labor Cost	$ 106,171
Other Costs	$ 565,315
Total Cost:	**$ 763,613**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Break Up Concrete	Caterpillar H90C Hydraulic Hammer (attachment)*	434	Hours	$ 43.75	$ 18,988
	Caterpillar 416C Backhoe	434	Hours	$ 42.45	$ 18,423
Concrete Disposal	3-Axle Dump Trucks	521	Hours	$ 58.43	$ 30,430
	Caterpillar 966G Loader	174	Hours	$ 139.89	$ 24,285
				Total:	**$ 92,126**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

* Caterpillar H90C rental rate based on Altorfer daily rate of $350 divided by 8 hours (www.altorfer.com/images/2011RentalRates.pdf)

Labor Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Break Up Concrete	Operating Engineer - Group 8	434	Hours	$ 58.68	$ 25,467
	Laborer - Group 1	434	Hours	$ 42.67	$ 18,519
Concrete Disposal	Teamster - Group VI	521	Hours	$ 46.50	$ 24,217
	Operating Engineer - Group 8	521	Hours	$ 58.68	$ 30,561
	Laborer - Group 1	174	Hours	$ 42.67	$ 7,408
				Total:	**$ 106,171**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Cost
Concrete Disposal	Landfill tipping fees	13,020	Tons	$ 43.42	$ 565,315
				Total:	**$ 565,315**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0300

Means cost reduced by 50% to account for the fact that this is concrete that can be disposed of at an inert landfil.

Task P2 - Concrete Removal

06/30/11

Assumptions and Calculations

Value	Parameter
969	Volume of concrete in building pads and footings (cu. yd.)(see next page)
1,139	Volume of concrete at concrete batch plant (cu. yd.)(see next page)
359	Volume of concrete at rock crushing plant (cu. yd.)(see next page)
2,957	Volume of concrete at sand and gravel wash plant (cu. yd.)(see next page)
5,425	Total concrete volume (cu. yd.)
20%	Increase by 20% to account for fuel tank concrete, scale ramps and other miscellanous items
6,510	Total concrete volume at the site (cu. yd.)
15	Hourly production to break up concrete (cu. yd. / hour)
434	Hours to break up concrete
2	Concrete waste density (tons/cu. yd.)
13,020	Concrete waste (tons)
25	Truck capacity (tons per load)
521	Trips to haul waste off site
1	Cycle time: load, haul, return (hours)
521	Total hours to haul waste
3	Number of trucks used
174	Hours to complete

Task P2 - Concrete Removal

06/30/11

Building Slabs and Footings

Area of concrete (sq. ft.)	Location
11,700	60' x 130' x 15' Manufacturing Building and exterior slab
4,800	40' x 120' x 20' Warehouse
12,000	100' x 120' x 15' Canopy Building
5,400	60' x 90' x 15' Canopy Building
16,000	50' x 150' x 25' Maintenance Building and exterior slab
500	20' x 25' x 10' Storage Building
750	25' x 30' x 15' Storage Building
1,200	30' x 40' x 10' Storage Building
52,350	Total concrete slab / footing area (sq. ft.)
0.5	Average concrete thickness (ft.)
26,175	Total concrete slab / footing volume (cu. ft.)
969	Total concrete slab / footing volume (cu. yd.)

Concrete Batch Plant

Value	Parameter
56,500	6" Thick concrete around ready mixed batch plant (sq. ft.)
0.5	Average thickness (ft.)
28,250	Subtotal: 6" thick (cu. ft.)
2,500	12" Thick concrete around ready mixed batch plant
1	Average thickness (ft.)
2,500	Subtotal: 12" thick (cu. ft.)
30,750	Total concrete at batch plant (cu. ft.)
1,139	Total concrete at batch plant (cu. yd.)

Rock Crushing Plant

Value	Parameter
11,400	6" Thick concrete around rock plant (sq. ft.)
0.5	Average thickness (ft.)
5,700	Subtotal: 6" thick (cu. ft.)
4,000	12" Thick concrete around rock plant
1	Average thickness (ft.)
4,000	Subtotal: 12" thick (cu. ft.)
9,700	Total concrete at rock plant (cu. ft.)
359	Total concrete at rock plant (cu. yd.)

Sand and Gravel Wash Plant

Value	Parameter
59,300	6" Thick concrete around wash plant (sq. ft.)
0.5	Average thickness (ft.)
29,650	Subtotal: 6" thick (cu. ft.)
50,200	12" Thick concrete around wash plant
1	Average thickness (ft.)
50,200	Subtotal: 12" thick (cu. ft.)
79,850	Total concrete at wash plant (cu. ft.)
2,957	Total concrete at wash plant (cu. yd.)

Task P3 - Distribute Material

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 906,237
Labor Cost	$ 317,745
Material Cost	$ -
Total Cost:	**$ 1,223,982**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Stockpile Distribution	Caterpillar D9R Dozer	904	Hours	$ 228.27	$ 206,356
Relocating Material	Caterpillar 623E Scraper	3,616	Hours	$ 180.22	$ 651,676
Dust Control	4,000-gallon Water Truck	1,130	Hours	$ 42.66	$ 48,206
				Total:	**$ 906,237**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Stockpile Distribution	Operating Engineer - Group 8	904	Hours	$ 58.68	$ 53,047
Relocating Material	Operating Engineer - Group 8	3,616	Hours	$ 58.68	$ 212,187
Dust Control	Teamster - Group V	1,130	Hours	$ 46.47	$ 52,511
				Total:	**$ 317,745**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Cost

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Assumptions and Calculations

Amount of Material (tons)	Size
75,000	Finished ceramic goods (Pacific Clay Pits)
40,000	Finished sand and gravel (Pacific Clay Pits)
100,000	Primary clay stockpiles (Pacific Clay Pits)
150,000	Stockpiled finished goods (Mountain Ave. Pit #2)
40,000	Over burden and raw material (Mountain Ave. Pit #2)
60,000	Finished sand and gravel (Alberhill)
40,000	Clay stockpiles (Alberhill)
60,000	Clay raw material (Alberhill)
565,000	Total stockpiled material (tons)

Fleet (each)	Unit
1	Caterpillar D9 Dozer
4	Caterpillar 623E Scraper
5,000	Daily fleet production, 8 hour day (tons/day)
625	Hourly production (tons/hour)
904	Hours to complete

Task P4 - Establish Final Slopes

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 223,846
Labor Cost	$ 71,077
Material Costs	$ -
Total Cost:	**$ 294,924**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Slope Layback, General Contouring	Caterpillar D9R Dozer	527	Hours	$ 228.27	$ 120,374
	Caterpillar 623E Grader	527	Hours	$ 180.22	$ 95,036
	4,000-gallon Water Truck	198	Hours	$ 42.66	$ 8,436
				Total:	**$ 223,846**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Slope Layback, General Contouring	Operating Engineer - Group 8	527	Hours	$ 58.68	$ 30,944
	Operating Engineer - Group 8	527	Hours	$ 58.68	$ 30,944
	Teamster - Group V	198	Hours	$ 46.47	$ 9,189
				Total:	**$ 71,077**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Costs

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Assumptions and Calculations

Value	Parameter
495	Areas that are flat or gently sloping (acres), minimal slope work required
5	Production rate in flat or gently sloping areas (acres/hour)
99	Time to contour slopes in flat or gently sloping areas (hours)
247	Areas that have moderate to steep slopes (acres)
1.5	Production rate in areas with moderate to steep slopes (acres/hour)
165	Time to create slopes and contour in areas have moderate to steep slopes (hour)
264	Total time to contour slopes (hours)
2	Number of dozers used
527	Total dozer time (hours)
2	Number of scrapers used
527	Total scraper time (hours)

Task P5 - General Grading and Contouring

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 28,002
Labor Cost	$ 17,387
Material Costs	$ -
Total Cost:	**$ 45,389**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
General Grading	Caterpillar 163H Motor Grader	247	Hours	$ 102.55	$ 25,364
	4,000-gallon Water Truck	62	Hours	$ 42.66	$ 2,638
				Total:	**$ 28,002**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
General Grading	Operating Engineer - Group 8	247	Hours	$ 58.68	$ 14,514
	Teamster - Group V	62	Hours	$ 46.47	$ 2,873
				Total:	**$ 17,387**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Costs

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Assumptions and Calculations

Value	Parameter
742	Area to be graded (acres)
3	Grader performance (acres/hour)
247	Time to complete (hours)

Task P6 - Soil Preparation (Decompact / Scarify)

03/11/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 45,974
Labor Cost	$ 17,930
Material Costs	$ -
Total Cost:	**$ 63,904**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
General Grading	Caterpillar D8R Dozer	255	Hours	$ 169.58	$ 43,253
Dust Control	4,000-gallon Water Truck	64	Hours	$ 42.66	$ 2,720
				Total:	**$ 45,974**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
General Grading	Operating Engineer - Group 8	255	Hours	$ 58.68	$ 14,967
Dust Control	Teamster - Group V	64	Hours	$ 46.47	$ 2,963
				Total:	**$ 17,930**

Source: *California General Prevailing Wage Rate Determination* (Valid through June 30, 2011)

Material Costs

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Assumptions and Calculations

742	Area to scarify (acres)
32,321,520	Area to scarify (sq. ft.)
8	Ripper width (feet), from Caterpillar Performance Handbook
4,040,190	Length of area to rip (feet)
3.00	Average travel speed (mph)
264	Average travel speed (feet/min)
15,304	Time to rip (minutes)
255	Time to rip (hours)

Task P7 - General Site Clean Up

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 8,235
Labor Cost	$ 7,621
Other Costs	$ 4,342
Total Cost:	**$ 20,198**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
General Site Clean Up	Caterpillar 966G Loader	40	Hours	$ 139.89	$ 5,596
	Dump Truck	40	Hours	$ 65.98	$ 2,639
				Total:	**$ 8,235**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
General Site Clean Up	Operating Engineer - Group 8	40	Hours	$ 58.68	$ 2,347
	Laborers	80	Hours	$ 42.67	$ 3,414
	Teamster - Group VI	40	Hours	$ 46.50	$ 1,860
				Total:	**$ 7,621**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Cost
Waste Disposal	Landfill tipping fees	50	Tons	$ 86.84	$ 4,342
				Total:	**$ 4,342**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0300

Revegetation

Task Cost Summary

Item	Cost	
Equipment Cost	$	179,822
Labor Cost	$	287,219
Material Cost	$	667,800
Total Cost:	**$**	**1,134,841**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Broadcast Seeding	1 Loader-backhoe	20,691	Thousand Square Feet	$ 4.30	105.9%	$ 94,221
Hydroseeding	1 Hydromulcher 1 Truck Tractor	11,631	Thousand Square Feet	$ 6.95	105.9%	$ 85,601
					Total:	**$ 179,822**

Source: *RS Means Heavy Construction Cost Data, 2011:* 329219.14-5700 - Tractor spreader

Source: *RS Means Heavy Construction Cost Data, 2011:* 329219.14-5800 - Hydro or air seeding

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Broadcast Seeding	1 Light Equip. Operator	20,691	Thousand Square Feet	$ 6.70	105.9%	$ 146,809
Hydroseeding	1 Truck Driver 1 Med. Equip. Operator 1 Laborer	11,631	Thousand Square Feet	$ 11.40	105.9%	$ 140,411
					Total:	**$ 287,219**

Source: *RS Means Heavy Construction Cost Data, 2011:* 329219.14-5700 - Tractor spreader

Source: *RS Means Heavy Construction Cost Data, 2011:* 329219.14-5800 - Hydro or air seeding

Material Cost

Activity	Description	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Revegetation	Seed Mix	742	Acres	$ 900	--	$ 667,800
					Total:	**$ 667,800**

Source: S&S Seeds Quote # 21388

Assumptions and Calculations

Area to be broadcast seeded (acres)	Area to be hydroseeded (acres)	Location
115	77	Pacific Clay Pits (SMP108)
50	30	Mountain Avenue Pit #2 (RP110)
310	160	Alberhill Ranch Mine (RP112)
475	267	Total area (acres)
43,560	43,560	Conversion: square feet per acre
20,691,000	11,630,520	Total area (sq. ft.)
20,691	11,631	Total area (thousand square feet or "MSF")

Task S1a - Concrete Batch Plant Removal

06/30/11

Task Cost Summary

Item	Cost	
Equipment Cost	$	18,605
Labor Cost	$	23,924
Material Cost	$	-
Total Cost:	**$**	**42,529**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Plant Disassembly / Removal	Grove TM1075 Crane (100 ton)	40	Hours	$ 151.36	$ 6,054
	Forklift, 5 ton	80	Hours	$ 51.07	$ 4,086
	Flat bed truck	128	Hours	$ 66.13	$ 8,465
				Total:	**$ 18,605**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Deenergize Equipment	Certified Electrician	16	Hours	$ 53.92	$ 863
Plant Disassembly / Removal	Crane Operator - Group 10	40	Hours	$ 60.14	$ 2,406
	Equipment Operator - Group 1	80	Hours	$ 55.79	$ 4,463
	Laborers	240	Hours	$ 42.67	$ 10,241
	Teamster - Group VI	128	Hours	$ 46.50	$ 5,952
				Total:	**$ 23,924**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Cost

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Task S1b - Rock Plant Removal

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 20,721
Labor Cost	$ 25,412
Material Cost	$ -
Total Cost:	**$ 46,133**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Plant Disassembly / Removal	Grove TM1075 Crane (100 ton)	40	Hours	$ 151.36	$ 6,054
	Forklift, 5-ton	80	Hours	$ 51.07	$ 4,086
	Flat bed truck	128	Hours	$ 66.13	$ 8,465
	Semi tractor	32	Hours	$ 66.13	$ 2,116
				Total:	**$ 20,721**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Deenergize Equipment	Certified Electrician	16	Hours	$ 53.92	$ 863
Plant Disassembly / Removal	Crane Operator - Group 10	40	Hours	$ 60.14	$ 2,406
	Equipment Operator - Group 1	80	Hours	$ 55.79	$ 4,463
	Laborers	240	Hours	$ 42.67	$ 10,241
	Teamster - Group VI	128	Hours	$ 46.50	$ 5,952
	Teamster - Group VI	32	Hours	$ 46.50	$ 1,488
				Total:	**$ 25,412**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Cost

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Task S1c - Wash Plant Removal

06/30/11

Task Cost Summary

Item	Cost	
Equipment Cost	$	48,848
Labor Cost	$	73,636
Material Cost	$	-
Total Cost:	**$**	**122,484**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Plant Disassembly / Removal	Grove TM1075 Crane (100 ton)	80	Hours	$ 151.36	$ 12,109
	Forklift, 5 ton	160	Hours	$ 51.07	$ 8,171
	Flat bed truck	432	Hours	$ 66.13	$ 28,568
				Total:	**$ 48,848**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Deenergize Equipment	Certified Electrician	16	Hours	$ 53.92	$ 863
Plant Disassembly / Removal	Crane Operator - Group 10	80	Hours	$ 60.14	$ 4,811
	Equipment Operator - Group 1	160	Hours	$ 55.79	$ 8,926
	Laborers	800	Hours	$ 42.67	$ 34,136
	Foreman	80	Hours	$ 60.14	$ 4,811
	Teamster - Group VI	432	Hours	$ 46.50	$ 20,088
				Total:	**$ 73,636**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Material Cost

Activity	Category	Quantity	Unit	Unit Cost	Cost
(None Identified)					$ -
				Total:	**$ -**

Task S2 - Retaining Wall Removal

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 14,491
Labor Cost	$ 10,467
Other Costs	$ 2,605
Total Cost:	**$ 27,564**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Retaining Wall Removal / Disposal	Grove RT-522C Crane (40 ton)	40	Hours	$ 81.23	$ 3,249
	Excavator, Caterpillar 345	40	Hours	$ 181.00	$ 7,240
	Dozer, Caterpillar D8R	8	Hours	$ 169.58	$ 1,357
	Flat bed truck	40	Hours	$ 66.13	$ 2,645
				Total:	**$ 14,491**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Cost
Retaining Wall Removal / Disposal	Crane Operator - Group 9	40	Hours	$ 59.14	$ 2,366
	Equipment Operator - Group 12	40	Hours	$ 58.97	$ 2,359
	Equipment Operator - Group 8	8	Hours	$ 58.68	$ 469
	Laborer	80	Hours	$ 42.67	$ 3,414
	Teamster - Group VI	40	Hours	$ 46.50	$ 1,860
				Total:	**$ 10,467**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Cost
Material Disposal	Landfill tipping fees	30	Tons	$ 86.84	$ 2,605
				Total:	**$ 2,605**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0100

Task S3 - Clay Processing Equipment Removal

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 9,312
Labor Cost	$ 8,492
Other Costs	$ 4,342
Total Cost:	**$ 22,146**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Equipment Dismanting / Disposal	Caterpillar 966G Loader	40	Hours	$ 139.89	$ 5,596
	Grove RT-522C Crane (40 ton)	40	Hours	$ 81.23	$ 3,249
	3-Axle Dump Trucks	8	Hours	$ 58.43	$ 467
				Total:	**$ 9,312**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

* Caterpillar H90C rental rate based on Altorfer daily rate of 350 divided by 8 hours (www.altorfer.com/images/2011RentalRates.pdf)

Labor Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Equipment Dismanting / Disposal	Operating Engineer - Group 8	40	Hours	$ 58.68	$ 2,347
	Equipment Operator - Group 12	40	Hours	$ 58.97	$ 2,359
	Teamster - Group VI	8	Hours	$ 46.50	$ 372
	Laborer - Group 1	80	Hours	$ 42.67	$ 3,414
				Total:	**$ 8,492**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Cost
Waste Disposal	Landfill tipping fees	50	Tons	$ 86.84	$ 4,342
				Total:	**$ 4,342**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0300

Assumptions and Calculations

Value	Parameter
2	Number of laborers to dismantle equipment (each)
40	Time per laborer (hours)
80	Total laborer time (hours)
50	Weight of waste (tons)

Task S4 - Fuel Tank Removal

Task Cost Summary

Item	Cost
Equipment Cost	$ 24,728
Labor Cost	$ 4,852
Material Costs	$ 1,010
Total Cost:	**$ 30,590**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Removal / Loading	Hydraulic Excavator	5	Each	$ 475.00	105.9%	$ 2,515
Remove Water / Sludge	Track Mounted Vacuum Flatbed Truck	5	Each	$ 245.00	105.9%	$ 1,297
Dispose Water / Sludge	(Total Cost)	2,500	Gallons	$ 6.00	105.9%	$ 15,885
Tank Disposal	(Total Cost)	5	Each	$ 950.00	105.9%	$ 5,030
					Total:	**$ 24,728**

Source: *RS Means Heavy Construction Cost Data, 2011:* Removal / Loading 026510.30-0130, Remove water / sludge 026510.30-0320, dispose water / sludge 026510.30-0390, tank disposal 026510.30-1029

Labor Cost

Activity	Labor Category	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Removal / Loading	4 Laborers 1 Med. Equip. Operator	5	Each	$ 730.00	105.9%	$ 3,865
Remove Water / Sludge	1 Light Equip. Operator	5	Each	$ 116.00	105.9%	$ 614
Inert Tanks	1 Laborer	510	Pounds	$ 0.69	105.9%	$ 373
					Total:	**$ 4,852**

Source: *RS Means Heavy Construction Cost Data, 2011:* Removal / Loading 026510.30-0130, Remove water / sludge 026510.30-0320, inert tank 026510.30-0403.

Material Costs

Activity	Category	Quantity	Unit	Unit Cost	Unit Cost Adjustment (%)	Cost
Inert Tanks	Dry Ice	510	Pounds	$ 1.87	105.9%	$ 1,010
					Total:	**$ 1,010**

Source: *RS Means Heavy Construction Cost Data, 20011:* Inert tank 026510.30-0403

Assumptions and Calculations

Tank size (gallons)	Tank Contents
2,000	Gasoline
2,000	Diesel Fuel
10,000	Diesel Fuel
10,000	Diesel Fuel
10,000	Diesel Fuel
34,000	Total tank capacity (gallons)
5	Total number of tanks
500	Waste / sludge generated per tank (gallons)
2,500	Total waste / sludge generated (gallons)
1.5	Dry ice needed to inert tanks (pounds dry ice / 100 gal. tank capacity)
510	Dry ice needed to inert tanks, total (pounds)

Task S5 - Scale Removal

06/30/11

Task Cost Summary

Item	Cost
Equipment Cost	$ 2,358
Labor Cost	$ 3,056
Other Costs	$ 1,737
Total Cost:	**$ 7,150**

Equipment Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Scale Removal	Grove RT-522C Crane (40 ton)	16	Hours	$ 81.23	$ 1,300
	Flat bed truck	16	Hours	$ 66.13	$ 1,058
				Total:	**$ 2,358**

Source: *CalTrans Labor Surcharge and Equipment Rental Rates (Effective April 1, 2011 - March 31, 2012)*

Labor Cost

Activity	Equipment	Quantity	Unit	Unit Cost	Cost
Scale Removal	Crane Operator	16	Hours	$ 59.14	$ 946
	Laborer - Group 1	32	Hours	$ 42.67	$ 1,365
	Teamster - Group VI	16	Hours	$ 46.50	$ 744
				Total:	**$ 3,056**

Source: *California General Prevailing Wage Rate Determination* (Expires June 30, 2011)

Other Costs

Activity	Description	Quantity	Unit	Unit Cost	Cost
Waste Disposal	Landfill tipping fees	20	Tons	$ 86.84	$ 1,737
				Total:	**$ 1,737**

Source: *RS Means Heavy Construction Cost Data, 2011:* 024119.19-0500

Miscellaneous

Task Cost Summary

Item	Cost
Phase I Environmental Site Assessment	$ 5,000
Minor Repairs	$ 10,000
Total Cost:	**$ 15,000**

Phase I Environmental Site Assessment

Activity	Quantity	Unit	Unit Cost	Cost
Phase I Environmental Site Assessment	1	Each	$ 5,000.00	$ 5,000
			Total:	**$ 5,000**

Minor Repairs

Activity	Quantity	Unit	Unit Cost	Cost
Fencing, Gate, Sign Repair	1	Each	$ 10,000.00	$ 10,000
			Total:	**$ 10,000**

Monitoring

Task Cost Summary

Item	Cost
Revegetation Monitoring	$ 283,710
Total Cost:	**$ 283,710**

In-House Monitoring

Activity	Base Cost	Amount	Unit	Cost
Revegetation Monitoring	$ 1,134,841	25%	Percent	$ 283,710
			Total:	**$ 283,710**

APPENDIX 3

SUPPORTING DOCUMENTATION

From: Garrett Zuleger [mailto:gzuleger@sespeconsulting.com]
Sent: Wednesday, June 29, 2011 9:44 AM
To: Gilbert Barajas
Subject: Seed Quote Request

S&S Seeds Quote#: 21388

Bid Date: 06/29/11

PO reqr'd within 60 days to hold price
Ph: 805/684-0436 - Fax: 805/684-2798

Hey Gilbert,

When you have a moment, can you please provide a quote for the following list?

Genus Species	Common Name	Pounds per acre
Bromus carinatus	Native California Brome	8.0
Vulpia microstachys	Small Vescue	6.0
Eriogonum fasciculatum	California Buckwheat	12.0
Eriophyllum confertiflorum	Golden Yarrow	4.0
Eschscholzia californica	California Poppy	1.0
Lasthenia californica	California Goldfields	1.0
Lotus scoparius	Deerweed	4.0
Sphaeralcea ambigua	Desert-mallow	1.0
Encelia farinosa	Brittlebrush	4.0
	Total:	**41.0**

$900.00/ACRE

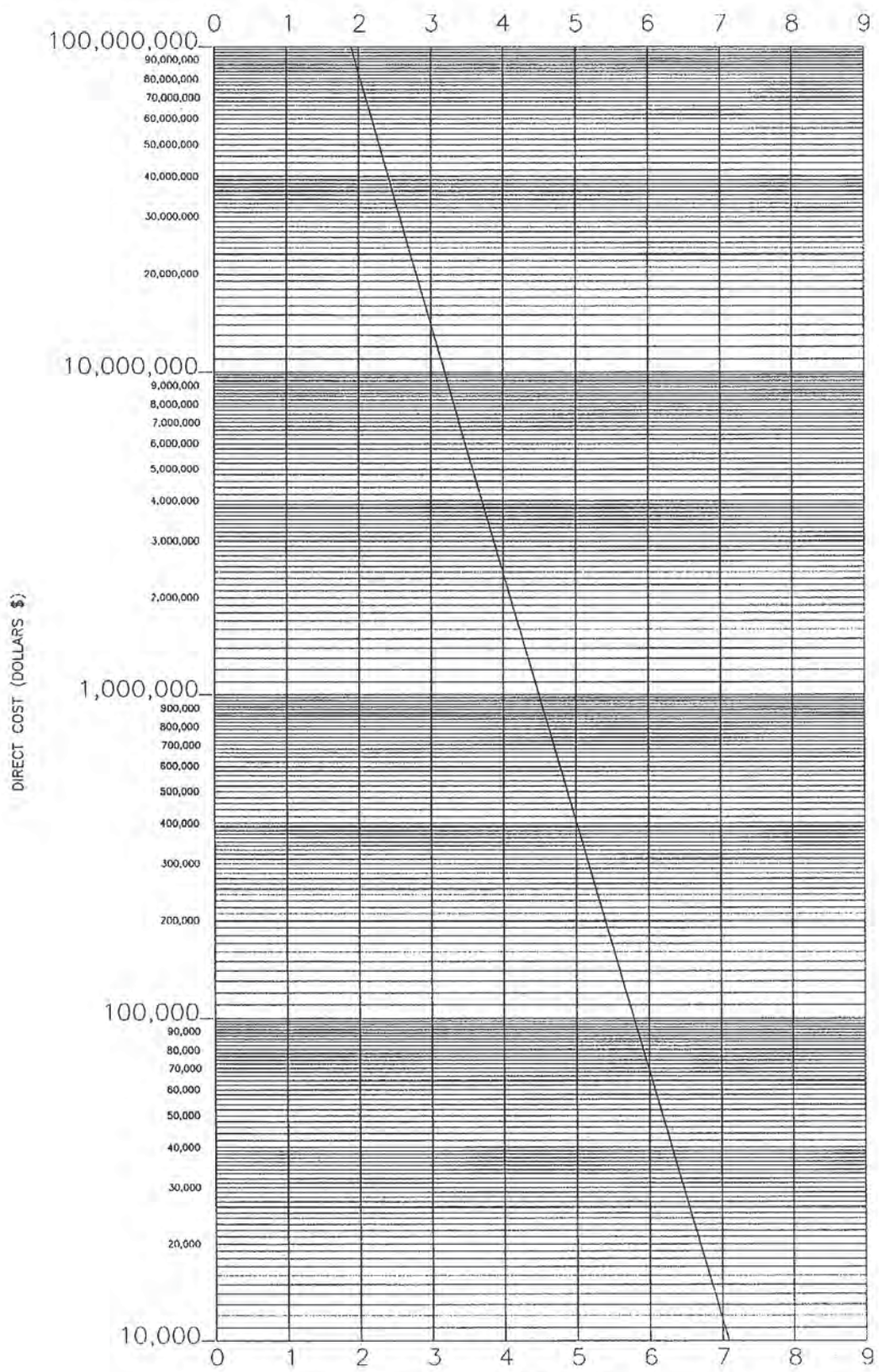
Thanks in advance!

Garrett Zuleger, P.E.
SESPE CONSULTING INC.
468 Poli St., Suite 2E • Ventura, CA 93001
T. (805)275-1515
C. (805)750-7356
www.sespeconsulting.com

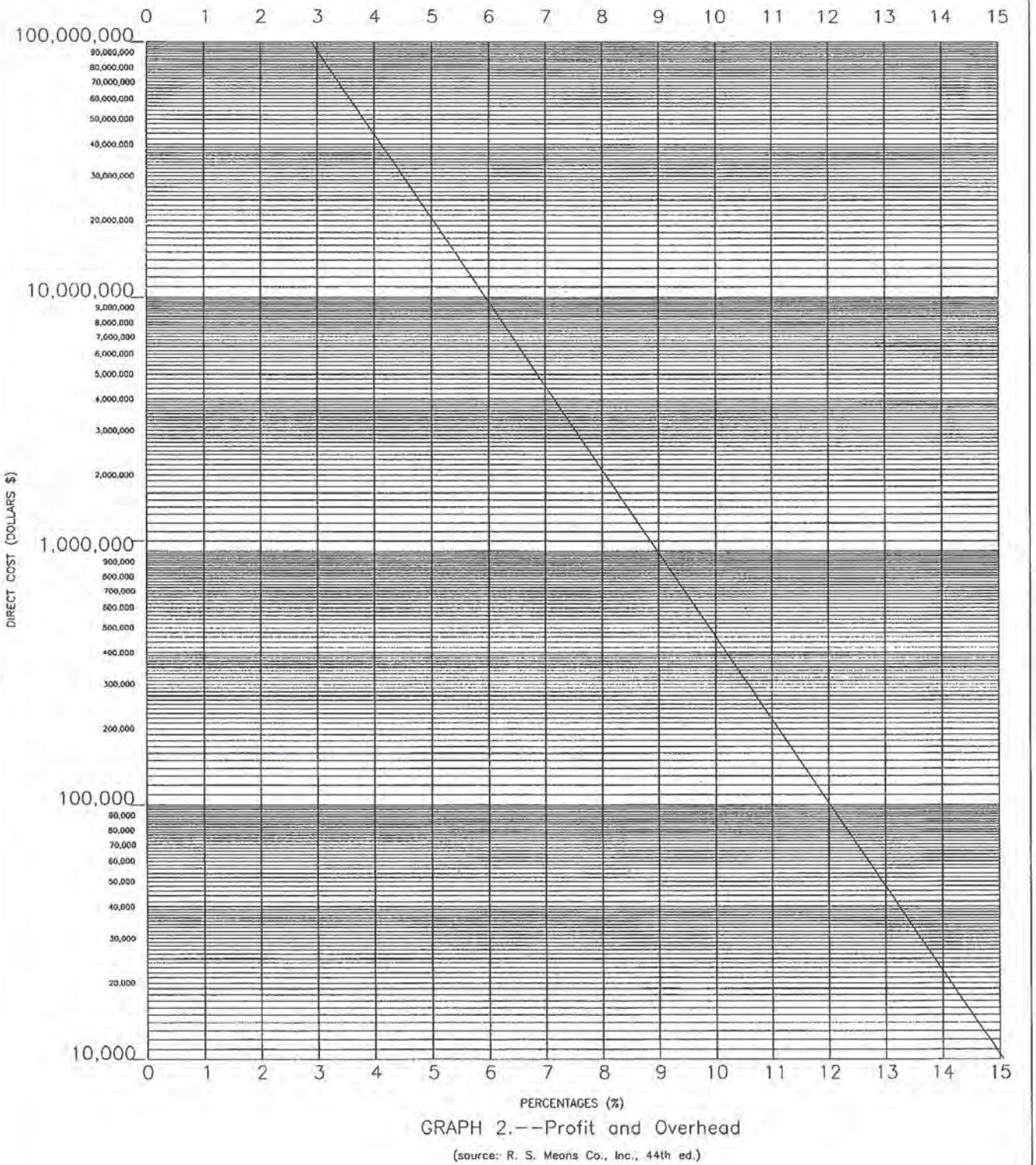
APPENDIX 4

DIVISION OF MINES AND GEOLOGY GRAPHS

GRAPH 1- RECLAMATION MANAGEMENT
GRAPH 2- PROFIT AND OVERHEAD



GRAPH 1.--Reclamation Management



GRAPH 2.--Profit and Overhead

(source: R. S. Means Co., Inc., 44th ed.)