



exporters to fund WQP actions, one of the funding options identified in the Plan.

- 5. CALFED identifies a Delta diversion fee as a potential funding source for various elements of the CALFED Program, including environmental storage, the portion of conveyance facilities dedicated to the ecosystem, and the common programs. Unfortunately, the analysis in the draft EIS/EIR does not demonstrate that water users will benefit from these programs. To justify water user funding for these programs, CALFED must provide regulatory assurances that protect water users from additional negative impacts on their water supplies due to Endangered Species Act listings or other regulatory actions.

IPF 5.6-1

September 22, 1999

Attention: Rick Breitenbach
CALFED Bay-Delta Program
1416 Ninth Street, #1155
Sacramento, California 95814

SUBJECT: CALFED Bay-Delta Draft Programmatic EIS/EIR

Dear Mr. Breitenbach:

The Construction Materials Association of California (CMAC) has reviewed the objectives of the CALFED Ecosystem Program and its affect on our members' operations, and asks that these comments be included in the record.

Construction Materials Association of California

CMAC represents large and small aggregate, ready mix concrete, and asphalt operations in Northern and Central California, an area inclusive of the CalFed watershed. Our members provide the construction aggregates to build California's infrastructure of roads, buildings, bridges, and highways.

Introduction

Briefly, it is frequent for aggregate resources, and consequently aggregate extraction operations, to be located in or near streams. The joint Environmental Impact Statement and Environmental Impact Report (EIS/EIR) identifies these extraction activities as "stressors" to rivers and streams. However, this analysis overlooks the current regulatory scheme, reclamation requirements, and the many benefits provided by aggregate operations.

ERP-112.6-1

IA 8.1-1

Current Regulatory Structure

Aggregate operations in California are governed by the state's Surface Mining and Reclamation Act (SMARA), which requires that all aggregate operations have approved mine reclamation plans prior to the beginning of extraction operations. SMARA contains strict reclamation performance requirements, including those for wildlife habitat, recontouring, revegetation, drainage, diversion structures, waterways, erosion control, agricultural land, stream protection, and topsoil salvage. And, each operation must post financial assurance to assure that reclamation will be completed.

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EVERY THING WE USE EVERY DAY IS GROWN OR MINED

1231

1231

Aggregate operations are required to be permitted by local lead agencies, in conformance with local use permits and according to local mining ordinances. The local mining ordinances are approved by the State Mining & Geology Board. Annual inspections are conducted of aggregate operations and mine reclamation.

A prospective aggregate operation must also be reviewed and assessed under the California Environmental Quality Act (CEQA). This provides the opportunity for agencies, such as the Regional Air Quality Districts, Regional Water Quality Boards, Fish and Game Department, and the U.S. Army Corps of Engineers to determine potential impacts, and require permits, mitigation, and monitoring. The CEQA process includes review and assessment of a potential aggregate operation's individual and cumulative impacts to stream hydrology and geomorphology.

Key to the current regulatory structure is its recognition of site specific regulation. This is due to the state's geographic and hydrologic diversity and the uniqueness of each aggregate operation. The Surface Mining and Reclamation Act recognizes this in Article 1, Section 2711(c):

"The Legislature further finds that surface mining takes place in diverse areas where the geologic, topographic, climatic, biological, and social conditions are significantly different and that reclamation operations and the specifications therefore may vary accordingly."

In sum, the EIS/EIR does not present a balanced perspective on the role of the current regulatory requirements and the extent to which they achieve CALFED'S objectives on an individual or cumulative basis. Also, CalFed's one-size-fits-all approach is not appropriate for California's diversity of geography, hydrology, and location of aggregate resources.

ERP 1.4.4-2

CR7

IA 8.1-1

Aggregate Resources

Aggregate operations provide not only needed aggregate resources, but also benefits for flood and erosion control, and habitat restoration.

CR14

Aggregate resources are limited and must be harvested where nature deposited them. The material is a key ingredient in concrete and asphalt products. The cost of aggregate materials is extremely sensitive to transportation costs. For approximately every 25 additional miles aggregate is transported, the cost of aggregates double. This directly impacts the cost of public works projects, affordable housing, and construction costs. Thus, it is important to ensure a reliable supply of aggregates near urban areas.

In many areas of California, aggregates are in short supply. For example, in the Sacramento and Fresno markets, there is less than a five year supply of aggregates to meet demand, according to the California Division of Mines and Geology.

Virtually all aggregate sources identified by DMG are located near stream or in channel. The EIS/EIR should include an assessment of the importance of aggregate resources for economic development, and the impact of scarcities.

IA-7.10.4-4

Flood Control

As sand and gravel accumulate, or aggrade, in a riverbed, the river's capacity to hold flood volume decreases. As a result, river velocity increases, and bank erosion and flooding become more likely. The severe flood events experienced over the last several years are an example of the need to maintain a river channel's flood capacity and levees. Aggregate operations reduce flood dangers by skimming the aggraded material from the stream bed. Benefits of aggregate operations to flood control and eco-systems should be included in the EIS/EIR.

IA-7.8.8.1-1

Habitat Restoration

Aggregate operations provide one of the few opportunities to reclaim lands to their historic habitat values. Land clearing activities for agricultural purposes have impacted habitat values, a process that can be reversed through the reclamation of aggregate sites. Below are a few examples of habitat reclamation associated with aggregate sites:

- A joint project between aggregate operations and the Department of Fish and Game created Salmon spawning grounds on the Tuolumne River. Special gravels have been manufactured for salmon spawning and establishment of riparian habitat.
- Along the San Joaquin River, former aggregate operations have established Rank Island as a ecological preserve, where human access is limited.
- Mississippi Bar on the American River is now a wildlife conservation area and a state park. The area has been reclaimed with native vegetation, and incorporates ponds and lagoons and other natural features.
- Aggregate operations along Cache Creek in Yolo County are working with local government to create a nature preserve and Nature Center, where formerly there were aggregate operations. The EIS/EIR mistakenly refers to this as a responsible solution by local government, but four aggregate operations are contributing jointly with government on this project.

These beneficial examples of habitat restoration should be included in the EIS/EIR, in order to present a more balanced understanding of aggregate operations, and to understand whether current activities are consistent with the goals of CalFed.

ERP 10-2



SUTTER EXTENSION WATER DISTRICT

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September 21, 1999

Conclusion

Many issues are facing the CalFed program. Our thoughts above generally indicate our understanding that CalFed has inadequately researched historical and current operational requirements on aggregate operations. We believe a review by CalFed in more fully understand aggregate harvesting activities, in-stream and near-stream mining reclamation requirements, use permit conditions and local jurisdictional ordinances, the Surface Mining and Reclamation Act, and the California Environmental Quality Act process is required before simplistic solutions are offered as a cure-all to complex and comprehensive environmental agreements between industry and local governments.

Sincerely,

Linda A. Falasco

Executive Director

Enclosures:

- Surface Mining & Reclamation Act
- Regulatory requirements for aggregate operations
- "Reclamation for Habitat"
- "Wetlands Reclamation in California's Central Valley"
- "Reclaiming Mining Sites for Agricultural Land Use"

CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Re: Comments of the Sutter Extension Water District Board of Directors to the June 1999 CalFed Bay-Delta Second Draft Programmatic EIS/EIR (hereafter '99 CalFed EIS/EIR)

Ladies and Gentlemen:

Sutter Extension Water District (SEWD) submits its comments on the foregoing described document. But first, we advise you of some historical background relevant to the existence, formation and water rights acquired and operated by SEWD.

WHAT IS SEWD?

SEWD was formed prior to 1950. SEWD acquired water rights, distribution and conveyance facilities from the Sutter Butte Canal Company which had acquired distribution and conveyance facilities with pre-1914 water rights and supplies in or prior to 1911 from Sacramento Canal Company/Butte County Canal Company. SEWD has operated since its formation prior to 1950 under and by virtue of Division 13 of the California Water Code as a California Water District. Its approximate 25,000 irrigated acres produce predominantly rice with assorted row crops, orchard lands and pasture. No domestic water supplies are served. Winter deliveries for rice straw decomposition and waterfowl continue through the middle of January. The system is generally discharged of water between the middle of January and the start of irrigation season, i.e., March 15 to April 15 depending upon the water year, current weather and precipitation.

SEWD agreed with DWR in 1969 to store SEWD pre-1914 water rights and supplies in the newly constructed and operating Oroville Dam and Reservoir together with three (3) other operating water districts located in Butte County. Diversion and delivery schedules are coordinated on a daily/weekly basis during each irrigation season with DWR.

To: CALFED Bay-Delta Program
Comments of Sutter Extension Water District
Board of Directors to the June 1999 CalFed
Bay-Delta Second Draft Programmatic EIS/EIR
Date: September 21, 1999

Page 2

To: CALFED Bay-Delta Program
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Date: September 21, 1999

Page 3

GENERAL COMMENTS

This '99 CalFed EIS/EIR establishes a "Preferred Program Alternative" which essentially eliminates water storage as an element and instead requires the effective conveyance of water through or around the Delta. The June 1999 documents also estimate Stage 1 costs at \$5,169,000,000 which costs are current as of 1999, yet estimates spending only \$70,000,000 of this sum for what is referred to as "integrated storage investigation." However, storage studies and particularly off-stream storage studies, have developed numerous feasible storage locations. We now want a commitment from CalFed to build on-stream or off-stream surface water storage facilities, either north and/or south of the Delta.

IA-5.1-ST-52
CR4

Unfortunately, like the '98 CalFed EIS/EIR, the '99 CalFed EIS/EIR is "general." These comments then are not site-specific because the '99 CalFed EIS/EIR addresses a "program" level and not a site-specific level. Our comments, then, are directed to areas of interest and concern to SEWD. As CalFed continues throughout the completion of Stage 2 and the implementation process in Stage 3; site-specific programs developed by CalFed which impact the SEWD will be commented upon.

PH24-3-4

Even though site-specific comments of the CalFed June 1999 EIS/EIR are not developed, SEWD does have some comments on trends, positions, goals/objectives and costs taken in the June 1999 documents which SEWD believes adversely impacts SEWD's existing and future development.

Our concern with the '98 CalFed EIS/EIR was the generality of the comments in those documents that failed to address "causation" for the Bay-Delta problem and the "cost" of fixing the problem. We see these two same primary elements as missing from the '99 CalFed EIS/EIR documents with the exception of a general estimate of current costs at the sum of \$5,169,000,000.

Let's first address the "missing causation" element. The "Executive Summary" to the '99 CalFed EIS/EIR described CalFed as a program which is a cooperative interagency effort involving 15 state and federal agencies which are responsible for the third paragraph in the June 1994 Framework Agreement which included solving four issues: 1) water quality issues, 2) design and operation of export systems, 3) levee and channel maintenance; and 4) means of protecting the estuary and its fish and wildlife resources. Unfortunately, there is nothing in the CalFed Executive Summary or in the 4,700+ pages of supporting documents which discuss the burden of fixing problems, such as, fish and fish habitats, based upon a "causation factor." Since CalFed describes the purpose of its program as developing and implementing a long-term plan to "restore ecological health and improve water management for beneficial uses" within the Bay-Delta System; at some point in time it will need to discuss the "causation factor" in order to achieve some meaningful consensus on costs.

PH24-3-4

Now, CalFed describes four sources to correct Bay-Delta problems which are: 1) ecosystem quality; 2) water quality; 3) water supply reliability; and 4) levee system integrity. But without a discussion of the cause of deteriorating ecosystem quality, reduced water quality, lack of water supply reliability and lack of levee system integrity which exists in the 5 California Counties constituting the 738,000 acres in the Bay-Delta System; SEWD believes that the CalFed Program is failing to recognize an important concept which will at some point in time have to be recognized and debated in order to try and achieve a consensus which will fix a meaningful and cost-efficient remedy for Bay-Delta.

This continued "causation neutral analysis" taken by the '99 CalFed EIS/EIR is an insurmountable problem. It is appropriate here to explain that SEWD is a Member of the Delta Tributary Agencies Committee (DTAC). DTAC commented on the decline of fish and wildlife resources in the Bay-Delta Estuary to a June 1994 SWRCB Workshop as follows:

"The Delta is not static-it has always been in a constant state of change driven by tides, winds, precipitation, and the influences of man. In this century, the State's population has gone from 1.5 million in 1900 to 20 million in 1970 to over 30 million today. This population growth has put tremendous pressures on all of the State's resources, including the Delta. In addition to population growth, other factors have directly influenced the fish and wildlife resources of the Delta. These factors include the following:

- Commercial and Sport Fishing
- Construction and Maintenance of Flood Controls Upstream of the Delta
- Construction and Operation of the Central Valley Project (CVP) and State Water Project (SWP) Storage Reservoirs
- Construction of the Sacramento and San Joaquin Deep-water Ship Channels
- Delta Reclamation, Dredging and Levee Construction
- Droughts
- Flood Control Projects in the Bay-Delta Watershed
- Floods
- Forest Practices in the Upstream Watershed
- Hydraulic Mining
- Increased Population and Recreational Pressures in the Delta
- Industrial and Municipal Waste Discharges to the Bay-Delta and the Upstream Waters
- Operation of the CVP Tracy and the SWP Banks-Delta Pumping Plants That Have Entrained Fish and Altered the Natural Flow Patterns of the Delta
- Reclamation of Swamp and Overflow Lands Upstream of the Delta
- Removal of Riparian Forest Along the Sacramento and San Joaquin Rivers



SURFACE MINING AND RECLAMATION ACT AND ASSOCIATED REGULATIONS

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THE RESOURCES AGENCY
DOUGLAS P. WHEELER
SECRETARY FOR RESOURCES

STATE OF CALIFORNIA
PETE WILSON
GOVERNOR

DEPARTMENT OF CONSERVATION
LAWRENCE J. GOLDZBAND
DIRECTOR

SURFACE MINING AND RECLAMATION ACT OF 1975

As amended by:

Senate Bill 1300, Nejedly - 1980 Statutes
Assembly Bill 110, Areias - 1984 Statutes
Senate Bill 593, Royce - 1985 Statutes
Senate Bill 1261, Seymour - 1986 Statutes
Assembly Bill 747, Sher - 1987 Statutes
Assembly Bill 3551, Sher - 1990 Statutes
Assembly Bill 3903, Sher - 1990 Statutes
Assembly Bill 1506, Sher - 1991 Statutes
Senate Bill 1569, Rogers - 1992 Statutes

Assembly Bill 3098, Sher - 1992 Statutes
Assembly Bill 723, Sher - 1993 Statutes
Assembly Bill 904, Sher - 1993 Statutes
Assembly Bill 867, Sher - 1994 Statutes
Senate Bill 273, Leslie - 1995 Statutes
Senate Bill 614, Craven et al - 1995 Statutes
Assembly Bill 1373, Olberg - 1996 Statutes, and
Senate Bill 1549, Monteith - 1996 Statutes

Article 1. General Provisions

§ 2710. This chapter shall be known and may be cited as the Surface Mining and Reclamation Act of 1975.

§ 2711. (a) The Legislature hereby finds and declares that the extraction of minerals is essential to the continued economic well-being of the state and to the needs of the society, and that the reclamation of mined lands is necessary to prevent or minimize adverse effects on the environment and to protect the public health and safety.

(b) The Legislature further finds that the reclamation of mined lands as provided in this chapter will permit the continued mining of minerals and will provide for the protection and subsequent beneficial use of the mined and reclaimed land.

(c) The Legislature further finds that surface mining takes place in diverse areas where the geologic, topographic, climatic, biological, and social conditions are significantly different and that reclamation operations and the specifications therefore may vary accordingly.

§ 2712. It is the intent of the Legislature to create and maintain an effective and comprehensive surface mining and reclamation policy with regulation of surface mining operations so as to assure that:

(a) Adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a usable condition which is readily adaptable for alternative land uses.

(b) The production and conservation of minerals are encouraged, while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment.

(c) Residual hazards to the public health and safety are eliminated.

§ 2713. It is not the intent of the Legislature by the enactment of this chapter to take private property for public use without payment of just compensation in violation of the California and United States Constitutions.

§ 2714. This chapter does not apply to any of the following activities:

(a) Excavations or grading conducted for farming or onsite construction or for the purpose of restoring land following a flood or natural disaster.

(b) Onsite excavation and onsite earthmoving activities that are an integral and necessary part of a construction project that are undertaken to prepare a site for construction of structures, landscaping, or other land improvements, including the related excavation, grading, compaction, or the creation of fills, road cuts, and embankments, whether or not surplus materials are exported from the site, subject to all of the following conditions:

(1) All required permits for the construction, landscaping, or related land improvements have been approved by a public agency in accordance with applicable provisions of state law and locally adopted plans and ordinances, including, but not limited to, Division 13 (commencing with Section 21000).

(2) The lead agency's approval of the construction project included consideration of the onsite excavation and onsite earthmoving activities pursuant to Division 13 (commencing with Section 21000).

(3) The approved construction project is consistent with the general plan or zoning of the site.

(4) Surplus materials shall not be exported from the site unless and until actual construction work has commenced and shall cease if it is determined that construction activities have terminated, have been indefinitely suspended, or are no longer being actively pursued.

(c) Operation of a plant site used for mineral processing, including associated onsite structures, equipment, machines, tools, or other materials, including the onsite stockpiling and onsite recovery of mined materials, subject to all of the following conditions:

(1) The plant site is located on lands designated for industrial or commercial uses in the applicable county or city general plan.

(2) The plant site is located on lands zoned industrial or commercial, or are contained within a zoning category intended exclusively for industrial activities by the applicable city or county.

(3) None of the minerals being processed are being extracted onsite.

(4) All reclamation work has been completed pursuant to the approved reclamation plan for any mineral extraction activities that occurred onsite after January 1, 1976.

(d) Prospecting for, or the extraction of, minerals for commercial purposes and the removal of overburden in total amounts of less than 1,000 cubic yards in any one location of one acre or less.

(e) Surface mining operations that are required by federal law in order to protect a mining claim, if those operations are conducted solely for that purpose.

(f) Any other surface mining operations that the board, as defined by section 2001, determines to be of an infrequent nature and which involve only minor surface disturbances.

(g) The solar evaporation of sea water or bay water for the production of salt and related minerals.

(h) Emergency excavations or grading conducted by the Department of Water Resources or the Reclamation Board for the purpose of averting, alleviating, repairing, or restoring damage to property due to imminent or recent floods, disasters, or other emergencies.

(i) (1) Surface mining operations conducted on lands owned or leased, or upon which easements or rights-of-way have been obtained, by the Department of Water Resources for the purpose of the State Water Resources Development System or flood control, and surface mining operations on lands owned or leased, or upon which easements or rights-of-way have been obtained, by the

Reclamation Board for the purpose of flood control, if the Department of Water Resources adopts, after submission to and consultation with, the Department of Conservation, a reclamation plan for lands affected by these activities, and those lands are reclaimed in conformance with the standards specified in regulations of the board adopted pursuant to this chapter. The Department of Water Resources shall provide an annual report to the Department of Conservation by the date specified by the Department of Conservation on these mining activities.

(2) Nothing in this subdivision shall require the Department of Water Resources or the Reclamation Board to obtain a permit or secure approval of a reclamation plan from any city or county in order to conduct surface mining operations specified in paragraph (1). Nothing in this subdivision shall preclude the bringing of an enforcement action pursuant to Section 2774.1, if it is determined that a surface mine operator, acting under contract with the Department of Water Resources or the Reclamation Board on lands other than those owned or leased, or upon which easements or rights-of-way have been obtained, by the Department of Water Resources or the Reclamation Board, is otherwise not in compliance with this chapter.

(j) (1) Excavations or grading for the exclusive purpose of obtaining materials for roadbed construction and maintenance conducted in connection with timber operations or forest management on land owned by the same person or entity. This exemption is limited to excavation and grading that is conducted adjacent to timber operation or forest management roads and shall not apply to onsite excavation or grading that occurs within 100 feet of a Class One watercourse or 75 feet of a Class Two watercourse, or to excavation for materials that are, or have been, sold for commercial purposes.

(2) This exemption shall be available only if slope stability and erosion are controlled in accordance with subdivision (f) of Section 3704 and subdivision (d) of Section 3706 of Title 14 of the California Code of Regulations and, upon closure of the site, the person closing the site implements, where necessary, revegetation measures and postclosure uses in consultation with the Department of Forestry and Fire Protection.

(k) Excavations, grading, or other earthmoving activities in an oil or gas field that are integral to, and necessary for, ongoing operations for the extraction of oil or gas that comply with all of the following conditions:

(1) The operations are being conducted in accordance with Division 3 (commencing with Section 3000).

(2) The operations are consistent with any general plan or zoning applicable to the site.

(3) The earthmoving activities are within oil or gas field properties under a common owner or operator.

(4) No excavated materials are sold for commercial purposes.

§ 2715. No provision of this chapter or any ruling, requirement, or policy of the board is a limitation on any of the following:

(a) On the police power of any city or county or on the power of any city or county to declare, prohibit, and abate nuisances.

(b) On the power of the Attorney General, at the request of the board, or upon his own motion, to bring an action in the name of the people of the State of California to enjoin any pollution or nuisance.

(c) On the power of any state agency in the enforcement or administration of any provision of law which it is specifically authorized or required to enforce or administer.

(d) On the right of any person to maintain at any time any appropriate action for relief against any private nuisance as defined in Part 3 (commencing with Section 3479) of Division 4 of the Civil Code or for any other private relief.

(e) On the power of any lead agency to adopt policies, standards, or regulations imposing additional requirements on any person if the requirements do not prevent the person from complying with the provisions of this chapter.

(f) On the power of any city or county to regulate the use of buildings, structures, and land as between industry, business, residents, open space (including agriculture, recreation, the enjoyment of scenic beauty, and the use of natural resources), and other purposes.

§ 2716. Any person may commence an action on his or her own behalf against the board, the State Geologist, or the director for a writ of mandate pursuant to Chapter 2 (commencing with Section 1084) of Title 1 of Part 3 of the Code of Civil Procedure to compel the board, the State Geologist, or the director to carry out any duty imposed upon them pursuant to this chapter.

§ 2717. (a) The board shall submit to the Legislature on December 1st of each year a report on the actions taken pursuant to this chapter during the preceding fiscal year. The report shall include a statement of the actions, including

legislative recommendations, which are necessary to carry out more completely the purposes and requirements of this chapter.

(b) For purposes of ensuring compliance with Section 10295.5 of the Public Contract Code, on and after July 1, 1993, the department shall, at a minimum, quarterly publish in the California Regulatory Notice Register, or otherwise make available upon request to the Department of General Services or any other state agency, a list identifying all of the following:

(1) Surface mining operations for which a report has been submitted pursuant to Section 2207 which indicates that the reclamation plan and the financial assurances have been approved.

(2) Surface mining operations for which an appeal is pending before the board pursuant to subdivision (e) of Section 2770, provided that the appeal shall not have been pending before the board for more than 180 days.

§ 2718. If any provision of this chapter or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of the chapter which can be given effect without the invalid provision or application, and to this end the provisions of this chapter are severable.

§ 2719. Notwithstanding any other provision of law, neither the state nor any county, city, district, or other political subdivision shall be exempt from any fee imposed upon a mining operation pursuant to subdivision (d) of Section 2207.

Article 2. Definitions

§ 2725. Unless the context otherwise requires, the definitions set forth in this article shall govern the construction of this chapter.

§ 2726. "Area of regional significance" means an area designated by the board pursuant to Section 2790 which is known to contain a deposit of minerals, the extraction of which is judged to be of prime importance in meeting future needs for minerals in a particular region of the state within which the minerals are located and which, if prematurely developed for alternate incompatible land uses, could result in the permanent loss of minerals that are of more than local significance.

§ 2727. "Area of statewide significance" means an area designated by the board pursuant to Section 2790 which is known to contain a deposit of minerals, the extraction of which is judged to be of prime importance in meeting future needs for minerals in the state and which, if prematurely

developed for alternate incompatible land uses, could result in the permanent loss of minerals that are of more than local or regional significance.

§ 2727.1 "Idle" means to curtail for a period of one year or more surface mining operations by more than 90 percent of the operation's previous maximum annual mineral production, with the intent to resume those surface mining operations at a future date.

§ 2728. "Lead agency" means the city, county, San Francisco Bay Conservation and Development Commission, or the board which has the principal responsibility for approving a surface mining operation or reclamation plan pursuant to this chapter.

§ 2729. "Mined lands" includes the surface, subsurface, and ground water of an area in which surface mining operations will be, are being, or have been conducted, including private ways and roads appurtenant to any such area, land excavations, workings, mining waste, and areas in which structures, facilities, equipment, machines, tools, or other materials or property which result from, or are used in, surface mining operations are located.

§ 2730. "Mining waste" includes the residual of soil, rock, mineral, liquid, vegetation, equipment, machines, tools, or other materials or property directly resulting from, or displaced by, surface mining operations.

§ 2731. "Operator" means any person who is engaged in surface mining operations, himself, or who contracts with others to conduct operations on his behalf, except a person who is engaged in surface mining operations as an employee with wages as his sole compensation.

§ 2732. "Overburden" means soil, rock, or other materials that lie above a natural mineral deposit or in between mineral deposits, before or after their removal by surface mining operations.

§ 2732.5. "Permit" means any authorization from, or approval by, a lead agency, the absence of which would preclude surface mining operations.

§ 2733. "Reclamation" means the combined process of land treatment that minimizes water degradation, air pollution, damage to aquatic or wildlife habitat, flooding, erosion, and other adverse effects from surface mining operations, including adverse surface effects incidental to underground mines, so that mined lands are reclaimed to a usable condition which is readily adaptable for alternate land uses and create no danger to public health or safety. The process

may extend to affected lands surrounding mined lands, and may require backfilling, grading, resoiling, revegetation, soil compaction, stabilization, or other measures.

§ 2734. "State policy" means the regulations adopted by the board pursuant to Section 2755.

§ 2735. "Surface mining operations" means all, or any part of, the process involved in the mining of minerals on mined lands by removing overburden and mining directly from the mineral deposits, open-pit mining of minerals naturally exposed, mining by the auger method, dredging and quarrying, or surface work incident to an underground mine. Surface mining operations shall include, but are not limited to:

- (a) Inplace distillation or retorting or leaching.
- (b) The production and disposal of mining waste.
- (c) Prospecting and exploratory activities.

Article 3. District Committees

§ 2740. In carrying out the provisions of this chapter, the board may establish districts and appoint one or more district technical advisory committees to advise the board. In establishing districts for these committees, the board shall take into account physical characteristics, including, but not limited to, climate, topography, geology, type of overburden, and principal mineral commodities. Members of the committees shall be selected and appointed on the basis of their professional qualifications and training in mineral resource conservation, development and utilization, land use planning, mineral economics, or the reclamation of mined lands.

§ 2741. The members of the committee shall receive no compensation for their services, but shall be entitled to their actual and necessary expenses incurred in the performance of their duties.

Article 4. State Policy for the Reclamation of Mined Lands

§ 2755. The board shall adopt regulations which establish state policy for the reclamation of mined lands in accordance with the general provisions set forth in Article 1 (commencing with Section 2710) of this chapter and pursuant to Chapter 4.5 (commencing with Section 11371) of Part 1 of Division 3 of Title 2 of the Government Code.

§ 2756. State policy shall apply to the conduct of surface mining operations and shall include, but shall not be limited to, measures to be employed by lead agencies in specifying grading, backfilling,

resoiling, revegetation, soil compaction, and other reclamation requirements, and for soil erosion control, water quality and watershed control, waste disposal, and flood control.

§ 2757. The state policy adopted by the board shall be based upon a study of the factors that significantly affect the present and future condition of mined lands, and shall be used as standards by lead agencies in preparing specific and general plans, including the conservation and land use elements of the general plan and zoning ordinances. The state policy shall not include aspects of regulating surface mining operations which are solely of local concern, and not of statewide or regional concern, as determined by the board, such as, but not limited to, hours of operation, noise, dust, fencing, and purely aesthetic considerations.

§ 2758. Such policy shall include objectives and criteria for all of the following:

(a) Determining the lead agency pursuant to the provisions of Section 2771.

(b) The orderly evaluation of reclamation plans.

(c) Determining the circumstances, if any, under which the approval of a proposed surface mining operation by a lead agency need not be conditioned on a guarantee assuring reclamation of the mined lands.

§ 2759. The state policy shall be continuously reviewed and may be revised. During the formulation or revision of the policy, the board shall consult with, and carefully evaluate the recommendations of, the director, any district technical advisory committees, concerned federal, state, and local agencies, educational institutions, civic and public interest organizations, and private organizations and individuals.

§ 2760. The board shall not adopt or revise the state policy, unless a public hearing is first held respecting its adoption or revision. At least 30 days prior to the hearing, the board shall give notice of the hearing by publication pursuant to Section 6061 of the Government Code.

§ 2761. (a) On or before January 1, 1977, and, as a minimum, after the completion of each decennial census, the Office of Planning and Research shall identify portions of the following areas within the state which are urbanized or are subject to urban expansion or other irreversible land uses which would preclude mineral extraction:

(1) Standard metropolitan statistical areas and such other areas for which information is readily available.

(2) Other areas as may be requested by the board.

(b) In accordance with a time schedule, and based upon guidelines adopted by the board, the State Geologist shall classify, on the basis solely of geologic factors, and without regard to existing land use and land ownership, the areas identified by the Office of Planning and Research, any area for which classification has been requested by a petition which has been accepted by the board, or any other areas as may be specified by the board, as one of the following:

(1) Areas containing little or no mineral deposits.

(2) Areas containing significant mineral deposits.

(3) Areas containing mineral deposits, the significance of which requires further evaluation.

The State Geologist shall require the petitioner to pay the reasonable costs of classifying an area for which classification has been requested by the petitioner.

(c) The State Geologist shall transmit the information to the board for incorporation into the state policy and for transmittal to lead agencies.

§ 2762. (a) Within 12 months of receiving the mineral information described in Section 2761, and also within 12 months of the designation of an area of statewide or regional significance within its jurisdiction, every lead agency shall, in accordance with state policy, establish mineral resource management policies to be incorporated in its general plan which will:

(1) Recognize mineral information classified by the State Geologist and transmitted by the board.

(2) Assist in the management of land use which affect areas of statewide and regional significance.

(3) Emphasize the conservation and development of identified mineral deposits.

(b) Every lead agency shall submit proposed mineral resource management policies to the board for review and comment prior to adoption.

(c) Any subsequent amendment of the mineral resource management policy previously reviewed by the board shall also require review and comment by the board.

(d) If any area is classified by the State Geologist as an area described in paragraph (2) of subdivision (b) of Section 2761, and the lead agency either has designated that area in its general plan as having important minerals to be protected pursuant to subdivision (a), or otherwise has not yet acted pursuant to subdivision (a), then prior to permitting a use which would threaten the potential to extract minerals in that area, the lead agency shall prepare,

in conjunction with preparing any environmental document required by Division 13 (commencing with Section 21000), or in any event if no such document is required, a statement specifying its reasons for permitting the proposed use, and shall forward a copy to the State Geologist and the board for review.

If the proposed use is subject to the requirements of Division 13 (commencing with Section 21000), the lead agency shall comply with the public review requirements of that division. Otherwise, the lead agency shall provide public notice of the availability of its statement by all of the following:

(1) Publishing the notice at least one time in a newspaper of general circulation in the area affected by the proposed use.

(2) Directly mailing the notice to owners of property within one-half mile of the parcel or parcels on which the proposed use is located as those owners are shown on the latest equalized assessment role.

The public review period shall not be less than 60 days from the date of the notice and shall include at least one public hearing. The lead agency shall evaluate comments received and shall prepare a written response. The written response shall describe the disposition of the major issues raised. In particular, when the lead agency's position on the proposed use is at variance with recommendations and objections raised in the comments, the written response shall address in detail why specific comments and suggestions were not accepted.

(e) Prior to permitting a use which would threaten the potential to extract minerals in an area classified by the State Geologist as an area described in paragraph (3) of subdivision (b) of Section 2761, the lead agency may cause to be prepared an evaluation of the area in order to ascertain the significance of the mineral deposit located therein. The results of such evaluation shall be transmitted to the State Geologist and the board.

§ 2763. (a) If an area is designated by the board as an area of regional significance, and the lead agency either has designated that area in its general plan as having important minerals to be protected pursuant to subdivision (a) of Section 2762, or otherwise has not yet acted pursuant to subdivision (a) of Section 2762, then prior to permitting a use which would threaten the potential to extract minerals in that area, the lead agency shall prepare a statement specifying its

reasons for permitting the proposed use, in accordance with the requirements set forth in subdivision (d) of Section 2762. Lead agency land use decisions involving areas designated as being of regional significance shall be in accordance with the lead agency's mineral resource management policies and shall also, in balancing mineral values against alternative land uses, consider the importance of these minerals to their market region as a whole and not just their importance to the lead agency's area of jurisdiction.

(b) If an area is designated by the board as an area of statewide significance, and the lead agency either has designated that area in its general plan as having important minerals to be protected pursuant to subdivision (a) of Section 2762, or otherwise has not yet acted pursuant to subdivision (a) of Section 2762, then prior to permitting a use which would threaten the potential to extract minerals in that area, the lead agency shall prepare a statement specifying its reasons for permitting the proposed use, in accordance with the requirements set forth in subdivision (d) of Section 2762. Lead agency land use decisions involving areas designated as being of statewide significance shall be in accordance with the lead agency's mineral resource management policies and shall also, in balancing mineral values against alternative land uses, consider the importance of the mineral resources to the state and nation as a whole.

§ 2764. (a) Upon the request of an operator or other interested person and payment by the requesting person of the estimated cost of processing the request, the lead agency having jurisdiction shall amend its general plan, or prepare a new specific plan or amend any applicable specific plan, that shall, with respect to the continuation of the existing surface mining operation for which the request is made, plan for future land uses in the vicinity of, and access routes serving, the surface mining operation in light of the importance of the minerals to their market region as a whole, and not just their importance to the lead agency's area of jurisdiction.

(b) In adopting amendments to the general plan, or adopting or amending a specific plan, the lead agency shall make written legislative findings as to whether the future land uses and particular access routes will be compatible or incompatible with the continuation of the surface mining operation, and if they are found to be incompatible, the findings shall include a statement of the reasons why they are to be provided for, notwithstanding the importance of the minerals to their market region as a whole or

their previous designation by the board, as the case may be.

(c) Any evaluation of a mineral deposit prepared by a lead agency for the purpose of carrying out this section shall be transmitted to the State Geologist and the board.

(d) The procedure provided for in this section shall not be undertaken in any area that has been designated pursuant to Article 6 (commencing with Section 2790) if mineral resource management policies have been established and incorporated in the lead agency's general plan in conformance with Article 4 (commencing with Section 2755).

Article 5. Reclamation of Mined Lands and the Conduct of Surface Mining Operations

§ 2770. (a) Except as provided in this section, no person shall conduct surface mining operations unless a permit is obtained from, a reclamation plan has been submitted to and approved by, and financial assurances for reclamation have been approved by, the lead agency for the operation pursuant to this article.

(b) Any person with an existing surface mining operation who has vested rights pursuant to Section 2776 and who does not have an approved reclamation plan shall submit a reclamation plan to the lead agency not later than March 31, 1988. If a reclamation plan application is not on file by March 31, 1988, the continuation of the surface mining operation is prohibited until a reclamation plan is submitted to the lead agency. For purposes of this subdivision, reclamation plans may consist of all or the appropriate sections of any plans or written agreements previously approved by the lead agency or another agency, together with any additional documents needed to substantially meet the requirements of Sections 2772 and 2773 and the lead agency surface mining ordinance adopted pursuant to subdivision (a) of Section 2774, provided that all documents which together were proposed to serve as the reclamation plan are submitted for approval to the lead agency in accordance with this chapter.

(c) If a person with an existing surface mining operation has received lead agency approval of its financial assurances for reclamation prior to January 1, 1991, the lead agency shall administratively review those existing financial assurances in accordance with subdivision (d) prior to January 1, 1992. The review of existing financial assurances shall not be considered a project for purposes of Division 13 (commencing

with Section 21000). Any person with an existing surface mining operation which does not have financial assurances that received lead agency approval prior to January 1, 1991, shall submit financial assurances for reclamation for review in accordance with subdivision (d).

(d) The lead agency's review of reclamation plans submitted pursuant to subdivision (b) or of financial assurances pursuant to subdivision (c) is limited to whether the plan or the financial assurances substantially meet the applicable requirements of Sections 2772, 2773, and 2773.1, and the lead agency surface mining ordinance adopted pursuant to subdivision (a) of Section 2774, but, in any event, the lead agency shall require that financial assurances for reclamation be sufficient to perform reclamation of lands remaining disturbed. Reclamation plans or financial assurances determined to substantially meet these requirements shall be approved by the lead agency for purposes of this chapter. Reclamation plans or financial assurances determined not to substantially meet these requirements shall be returned to the operator within 60 days. The operator has 60 days to revise the plan or financial assurances to address identified deficiencies, at which time the revised plan or financial assurances shall be returned to the lead agency for review and approval. Except as specified in subdivision (e) or (i), unless the operator has filed on or before July 1, 1990, an appeal pursuant to subdivision (e) with regard to nonapproval of the reclamation plan, or has filed on or before January 1, 1994, an appeal pursuant to subdivision (e) with regard to nonapproval of financial assurances, and that appeal is pending before the board, the continuation of the surface mining operation is prohibited until a reclamation plan and financial assurances for reclamation are approved by the lead agency.

(e) Any person who, based on the evidence of the record, can substantiate that a lead agency has either (1) failed to act according to due process or has relied on considerations not related to the specific applicable requirements of Sections 2772, 2773, and 2773.1, and the lead agency surface mining ordinance adopted pursuant to subdivision (a) of Section 2774, in reaching a decision to deny approval of a reclamation plan or financial assurances for reclamation, (2) failed to act within a reasonable time of receipt of a completed application, or (3) failed to review and approve reclamation plans or financial assurances as required by subdivisions (c) and (d), may appeal that action or inaction to the board.

(f) The board may decline to hear an appeal if it determines that the appeal raises no substantial issues related to the lead agency's review pursuant to this section.

(g) Appeals that the board does not decline to hear shall be scheduled and heard at a public hearing within 45 days of the filing of the appeal, or any longer period as may be mutually agreed upon by the board and the person filing the appeal. In hearing an appeal, the board shall only determine whether the reclamation plan or the financial assurances substantially meet the applicable requirements of Sections 2772, 2773, 2773.1, and the lead agency surface mining ordinance adopted pursuant to subdivision (a) of Section 2774. A reclamation plan or financial assurances determined to meet these requirements shall be approved. A reclamation plan or financial assurances determined not to meet these requirements shall be returned to the person filing the appeal with a notice of deficiencies, who shall be granted, once only, a period of 30 days, or a longer period mutually agreed upon by the operator and the board, to correct the noted deficiencies and submit the revised reclamation plan or the revised financial assurances to the lead agency for review and approval.

(h)(1) Within 90 days of a surface mining operation becoming idle, as defined in Section 2727.1, the operator shall submit to the lead agency for review and approval, an interim management plan. The review and approval of an interim management plan shall not be considered a project for purposes of Division 13 (commencing with Section 21000). The approved interim management plan shall be considered an amendment to the surface mining operation's approved reclamation plan, for purposes of this chapter. The interim management plan shall provide measures the operator will implement to maintain the site in compliance with this chapter, including, but not limited to, all permit conditions.

(2) The interim management plan may remain in effect for a period not to exceed five years, at which time the lead agency shall do one of the following:

(A) Renew the interim management plan for another period not to exceed five years, if the lead agency finds that the surface mining operator has complied fully with the interim management plan.

(B) Require the surface mining operator to commence reclamation in accordance with its approved reclamation plan.

(3) The financial assurances required by

Section 2773.1 shall remain in effect during the period that the surface mining operation is idle. If the surface mining operation is still idle after the expiration of its interim management plan, the surface mining operation shall commence reclamation in accordance with its approved reclamation plan.

(4) Within 60 days of the receipt of the interim management plan, or a longer period mutually agreed upon by the lead agency and the operator, the lead agency shall review and approve the plan in accordance with its ordinance adopted pursuant to subdivision (a) of Section 2774, so long as the plan satisfies the requirements of this subdivision, and so notify the operator in writing. Otherwise, the lead agency shall notify the operator in writing of any deficiencies in the plan. The operator shall have 30 days, or a longer period mutually agreed upon by the operator and the lead agency, to submit a revised plan.

(5) The lead agency shall approve or deny approval of the revised interim management plan within 60 days of receipt. If the lead agency denies approval of the revised interim management plan, the operator may appeal that action to the lead agency's governing body, which shall schedule a public hearing within 45 days of the filing of the appeal, or any longer period mutually agreed upon by the operator and the governing body.

(6) Unless review of an interim management plan is pending before the lead agency, or an appeal is pending before the lead agency's governing body, a surface mining operation which remains idle for over one year after becoming idle as defined in Section 2727.1 without obtaining approval of an interim management plan shall be considered abandoned and the operator shall commence and complete reclamation in accordance with the approved reclamation plan.

(i) Any enforcement action which may be brought against a surface mining operation for operating without an approved reclamation plan, financial assurance, or interim management plan, shall be held in abeyance pending review pursuant to subdivision (b), (c), (d), or (h) or the resolution of an appeal filed with the board pursuant to subdivision (e), or with a lead agency governing body pursuant to subdivision (h).

§ 2770.5. Whenever surface mining operations are proposed in the 100-year flood plain for any stream, as shown in Zone A of Flood Insurance Rate Maps issued by the Federal Emergency Management Agency, and within one mile, upstream or downstream, of any state highway bridge, the lead

agency receiving the application for the issuance or renewal of a permit to conduct the surface mining operations shall notify the Department of Transportation that the application has been received. The Department of Transportation shall have a period of not more than 45 days to review and comment on the proposed surface mining operations with respect to any potential damage to the state highway bridge from the proposed surface mining operations. The lead agency shall not issue or renew the permit until the Department of Transportation has submitted its comments or until 45 days from the date the application for the permit was submitted, whichever occurs first.

§ 2771. Whenever a proposed or existing surface mining operation is within the jurisdiction of two or more public agencies, is a permitted use within the agencies, and is not separated by a natural or manmade barrier coinciding with the boundary of the agencies, the evaluation of the proposed or existing operation shall be made by the lead agency in accordance with the procedures adopted by the lead agency pursuant to Section 2774. If a question arises as to which public agency is the lead agency, any affected public agency, or the affected operator, may submit the matter to the board. The board shall notify in writing all affected public agencies and operators that the matter has been submitted, specifying a date for a public hearing. The board shall designate the public agency which shall serve as the lead agency, giving due consideration to the capability of the agency to fulfill adequately the requirements of this chapter and to an examination of which of the public agencies has principal permit responsibility.

§ 2772. (a) The reclamation plan shall be filed with the lead agency, on a form provided by the lead agency, by any person who owns, leases, or otherwise controls or operates on all, or any portion of any, mined lands, and who plans to conduct surface mining operations on the lands.

(b) All documentation for the reclamation plan shall be submitted by the lead agency to the department at one time.

(c) The reclamation plan shall include all of the following information and documents:

(1) The name and address of the surface mining operator and the names and addresses of any persons designated by the operator as an agent for the service of process.

(2) The anticipated quantity and type of minerals for which the surface mining operation is to be conducted.

(3) The proposed dates for the initiation and termination of surface mining operation.

(4) The maximum anticipated depth of the surface mining operation.

(5) The size and legal description of the lands that will be affected by the surface mining operation, a map that includes the boundaries and topographic details of the lands, a description of the general geology of the area, a detailed description of the geology of the area in which surface mining is to be conducted, the location of all streams, roads, railroads, and utility facilities within, or adjacent to, the lands, the location of all proposed access roads to be constructed in conducting the surface mining operation, and the names and addresses of the owners of all surface interests and mineral interests in the lands.

(6) A description of, and a plan for, the type of surface mining to be employed, and a time schedule that will provide for the completion of surface mining on each segment of the mined lands so that reclamation can be initiated at the earliest possible time on those portions of the mined lands that will not be subject to further disturbance by the surface mining operation.

(7) A description of the proposed use or potential uses of the mined lands after reclamation and evidence that all owners of a possessory interest in the land have been notified of the proposed use or potential uses.

(8) A description of the manner in which reclamation, adequate for the proposed use or potential uses will be accomplished, including both of the following:

(A) A description of the manner in which contaminants will be controlled, and mining waste will be disposed.

(B) A description of the manner in which affected streambed channels and streambanks will be rehabilitated to a condition minimizing erosion and sedimentation will occur.

(9) An assessment of the effect of implementation of the reclamation plan on future mining in the area.

(10) A statement that the person submitting the reclamation plan accepts responsibility for reclaiming the mined lands in accordance with the reclamation plan.

(11) Any other information which the lead agency may require by ordinance.

(d) An item of information or a document required pursuant to subdivision (c) that has already been prepared as part of a permit application for the surface mining operation, or as part of an

environmental document prepared for the project pursuant to Division 13 (commencing with Section 21000), may be included in the reclamation plan by reference, if that item of information or that document is attached to the reclamation plan when the lead agency submits the reclamation plan to the director for review. To the extent that the information or document referenced in the reclamation plan is used to meet the requirements of subdivision (c), the information or document shall become part of the reclamation plan and shall be subject to all other requirements of this article.

(e) Nothing in this section is intended to limit or expand the department's authority or responsibility to review a document in accordance with Division 13 (commencing with Section 21000).

§ 2773. (a) The reclamation plan shall be applicable to a specific piece of property or properties, shall be based upon the character of the surrounding area and such characteristics of the property as type of overburden, soil stability, topography, geology, climate, stream characteristics, and principal mineral commodities, and shall establish site-specific criteria for evaluating compliance with the approved reclamation plan, including topography, revegetation and sediment, and erosion control.

(b) By January 1, 1992, the board shall adopt regulations specifying minimum, verifiable statewide reclamation standards. Subjects for which standards shall be set include, but shall not be limited to, the following:

(1) Wildlife habitat.

(2) Backfilling, regrading, slope stability, and recontouring.

(3) Revegetation.

(4) Drainage, diversion structures, waterways, and erosion control.

(5) Prime and other agricultural land reclamation.

(6) Building, structure, and equipment removal.

(7) Stream protection.

(8) Topsoil salvage, maintenance, and redistribution.

(9) Tailing and mine waste management.

These standards shall apply to each mining operation, but only to the extent that they are consistent with the planned or actual subsequent use or uses of the mining site.

§ 2773.1. (a) Lead agencies shall require financial assurances of each surface mining operation to ensure reclamation is performed in accordance with the surface mining operation's approved reclamation plan, as follows:

(1) Financial assurances may take the form of surety bonds, irrevocable letters of credit, trust funds, or other forms of financial assurances specified by the board pursuant to subdivision (e), which the lead agency reasonably determines are adequate to perform reclamation in accordance with the surface mining operation's approved reclamation plan.

(2) The financial assurances shall remain in effect for the duration of the surface mining operation and any additional period until reclamation is completed.

(3) The amount of financial assurances required of a surface mining operation for any one year shall be adjusted annually to account for new lands disturbed by surface mining operations, inflation, and reclamation of lands accomplished in accordance with the approved reclamation plan.

(4) The financial assurances shall be made payable to the lead agency and the department. Financial assurances that were approved by the lead agency prior to January 1, 1993, and were made payable to the State Geologist shall be considered payable to the department for purposes of this chapter. However, if a surface mining operation has received approval of its financial assurances from a public agency other than the lead agency, the lead agency shall deem those financial assurances adequate for purposes of this section, or shall credit them toward fulfillment of the financial assurances required by this section, if they are made payable to the public agency, the lead agency, and the department and otherwise meet the requirements of this section. In any event, if a lead agency and one or more public agencies exercise jurisdiction over a surface mining operation, the total amount of financial assurances required by the lead agency and the public agencies for any one year shall not exceed that amount which is necessary to perform reclamation of lands remaining disturbed. For purposes of this paragraph, a "public agency" may include a federal agency.

(b) If the lead agency or the board, following a public hearing, determines that the operator is financially incapable of performing reclamation in accordance with its approved reclamation plan, or has abandoned its surface mining operation without commencing reclamation, either the lead agency or the director shall do all of the following:

(1) Notify the operator by personal service or certified mail that the lead agency or the director intends to take appropriate action to forfeit the financial assurances and specify the reasons for so doing.

(2) Allow the operator 60 days to commence or cause the commencement of reclamation in accordance with its approved reclamation plan and require that reclamation be completed within the time limits specified in the approved reclamation plan or some other time period mutually agreed upon by the lead agency or the director and the operator.

(3) Proceed to take appropriate action to require forfeiture of the financial assurances if the operator does not substantially comply with paragraph (2).

(4) Use the proceeds from the forfeited financial assurances to conduct and complete reclamation in accordance with the approved reclamation plan. In no event shall the financial assurances be used for any other purpose. The operator is responsible for the costs of conducting and completing reclamation in accordance with the approved reclamation plan which are in excess of the proceeds from the forfeited financial assurances.

(c) Financial assurances shall no longer be required of a surface mining operation, and shall be released, upon written notification by the lead agency, which shall be forwarded to the operator and the director, that reclamation has been completed in accordance with the approved reclamation plan. If a mining operation is sold or ownership is transferred to another person, the existing financial assurances shall remain in force and shall not be released by the lead agency until new financial assurances are secured from the new owner and have been approved by the lead agency in accordance with Section 2770.

(d) The lead agency shall have primary responsibility to seek forfeiture of financial assurances and to reclaim mine sites under subdivision (b). However, in cases where the board is not the lead agency pursuant to Section 2774.4, the director may act to seek forfeiture of financial assurances and reclaim mine sites pursuant to subdivision (b) only if both of the following occurs:

(1) The financial incapability of the operator or the abandonment of the mining operation has come to the attention of the director.

(2) The lead agency has been notified in writing by the director of the financial incapability of the operator or the abandonment of the mining operation for at least 15 days, and has not taken appropriate measures to seek forfeiture of the financial assurances and reclaim the mine site; and one of the following has occurred:

(A) The lead agency has been notified in writing by the director that failure to take appropriate measures to seek forfeiture of the financial assurances or to reclaim the mine site shall result in actions being taken against the lead agency under Section 2774.4.

(B) The director determines that there is a violation which amounts to an imminent and substantial endangerment to the public health, safety, or to the environment.

(C) The lead agency notifies the director in writing that its good faith attempts to seek forfeiture of the financial assurances have not been successful.

The director shall comply with subdivision (b) in seeking forfeiture of financial assurances and reclaiming mine sites.

(e) The board may adopt regulations specifying financial assurance mechanisms other than surety bonds, irrevocable letters of credit, and trust funds, which the board determines are reasonably available and adequate to ensure reclamation pursuant to this chapter, but these mechanisms may not include financial tests. These mechanisms may include reclamation bond pool programs.

(f) On or before March 1, 1993, the board shall adopt guidelines to implement this section. The guidelines are exempt from the requirements of Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code, and are not subject to review by the Office of Administrative Law.

§ 2774. (a) Every lead agency shall adopt ordinances in accordance with state policy which establish procedures for the review and approval of reclamation plans and financial assurances and the issuance of a permit to conduct surface mining operations, except that any lead agency without an active surface mining operation in its jurisdiction may defer adopting an implementing ordinance until the filing of a permit application. The ordinances shall establish procedures requiring at least one public hearing and shall be periodically reviewed by the lead agency and revised, as necessary, to ensure that the ordinances continue to be in accordance with state policy.

(b) The lead agency shall conduct an inspection of a surface mining operation within six months of receipt by the lead agency of the surface mining operation's report submitted pursuant to Section 2207, solely to determine whether the surface mining operation is in compliance with this chapter. In no event shall a lead agency inspect a surface mining operation less than once in any calendar

year. The lead agency may cause such an inspection to be conducted by a state-registered geologist, state-registered civil engineer, state-licensed landscape architect, or state-registered forester, who is experienced in land reclamation and who has not been employed by the surface mining operation in any capacity during the previous 12 months. All inspections shall be conducted using a form developed by the department and approved by the board. The operator shall be solely responsible for the reasonable cost of the inspection. The lead agency shall notify the director within 30 days of the date of completion of the inspection that the inspection has been conducted. The notice shall contain a statement regarding the surface mining operation's compliance with this chapter, shall include a copy of the completed inspection form, and shall specify which aspects of the surface mining operations, if any, are inconsistent with this chapter. If the surface mining operation has a review of its reclamation plan, financial assurances, or an interim management plan pending under subdivision (b), (c), (d), or (h) of Section 2770, or an appeal pending before the board or lead agency governing body under subdivision (e) or (h) of Section 2770, the notice shall so indicate. The lead agency shall forward to the operator a copy of the notice, a copy of the completed inspection form, and any supporting documentation, including, but not limited to, any inspection report prepared by the geologist, civil engineer, landscape architect, or forester.

(c) Prior to approving a surface mining operation's reclamation plan, financial assurances, including existing financial assurances reviewed by the lead agency pursuant to subdivision (c) of Section 2770, or any amendments, the lead agency shall submit the plan, assurances, or amendments to the director for review. All documentation for that submission shall be submitted to the director at one time. When the lead agency submits a reclamation plan or plan amendments to the director for review, the lead agency shall also submit to the director, for use in reviewing the reclamation plan or plan amendments, information from any related document prepared, adopted, or certified pursuant to Division 13 (commencing with Section 21000), and shall submit any other pertinent information. The lead agency shall certify to the director that the reclamation plan is in compliance with the applicable requirements of Article 1 (commencing with Section 3500) of Chapter 8 of Division 2 of

Title 14 of the California Code of Regulations in effect at the time that the reclamation plan is submitted to the director for review.

(d) (1) The director shall have 30 days from the date of receipt of a reclamation plan or plan amendments submitted pursuant to subdivision (c), and 45 days from the date of receipt of financial assurances submitted pursuant to subdivision (c), to prepare written comments, if the director so chooses. The lead agency shall evaluate any written comments received from the director relating to the reclamation plan, plan amendments, or financial assurances within a reasonable amount of time.

(2) The lead agency shall prepare a written response to the director's comments describing the disposition of the major issues raised. In particular, if the lead agency's position is at variance with any of the recommendations made, or objections raised, in the director's comments, the written response shall address, in detail, why specific comments and suggestions were not accepted. Copies of any written comments received and responses prepared by the lead agency shall be forwarded to the operator.

(3) To the extent that there is a conflict between the comments of a trustee agency or a responsible agency that are based on the agency's statutory or regulatory authority and the comments of other commenting agencies which are received by the lead agency pursuant to Division 13 (commencing with Section 21000) regarding a reclamation plan or plan amendments, the lead agency shall consider only the comments of the trustee agency or responsible agency.

(e) Lead agencies shall notify the director of the filing of an application for a permit to conduct surface mining operations within 30 days of such an application being filed with the lead agency. By July 1, 1991, each lead agency shall submit to the director for every active or idle mining operation within its jurisdiction, a copy of the mining permit required pursuant to Section 2774, and any conditions or amendments to those permits. By July 1 of each subsequent year, the lead agency shall submit to the director for each active or idle mining operation a copy of any permit or reclamation plan amendments, as applicable, or a statement that there have been no changes during the previous year. Failure to file with the director the information required under this section shall be cause for action under Section 2774.4.

§ 2774.1. (a) Except as provided in subdivision (i) of Section 2770, if the lead agency or the director determines, based upon an annual inspection

pursuant to Section 2774, or otherwise confirmed by an inspection of the mining operation, that a surface mining operation is not in compliance with this chapter, the lead agency or the director may notify the operator of that violation by personal service or certified mail. If the violation extends beyond 30 days after the date of the lead agency's or the director's notification, the lead agency or the director may issue an order by personal service or certified mail requiring the operator to comply with this chapter or, if the operator does not have an approved reclamation plan or financial assurances, cease all further mining activities.

(b) An order issued under subdivision (a) shall not take effect until the operator has been provided a hearing before the lead agency for orders issued by the lead agency, or board for orders issued by the director, concerning the alleged violation. Any order issued under subdivision (a) shall specify which aspects of the surface mine's activities or operations are inconsistent with this chapter, shall specify a time for compliance which the lead agency or director determines is reasonable, taking into account the seriousness of the violation and any good faith efforts to comply with applicable requirements, and shall set a date for the hearing, which shall not be sooner than 30 days after the date of the order.

(c) Any operator who violates or fails to comply with an order issued under subdivision (a) after the order's effective date, as provided in subdivision (b), or who fails to submit a report to the director or lead agency as required by Section 2207, shall be subject to an order by the lead agency or the director imposing an administrative penalty of not more than five thousand dollars (\$5,000) per day, assessed from the original date of noncompliance with this chapter or Section 2207. The penalty may be imposed administratively by the lead agency or the director. In determining the amount of the administrative penalty, the lead agency or the director shall take into consideration the nature, circumstances, extent, and gravity of the violation or violations, any prior history of violations, the degree of culpability, economic savings, if any, resulting from the violation, and any other matters justice may require. Orders setting administrative penalties shall become effective upon issuance thereof and payment shall be made to the lead agency or the director within 30 days, unless the operator petitions the legislative body of the lead agency, the board, or the superior court for review as provided in Section 2774.2. Any order shall be

served by personal service or by certified mail upon the operator. Penalties collected by the director shall be used for no purpose other than to cover the reasonable costs incurred by the director in implementing this chapter or Section 2207.

(d) If the lead agency or the director determines that the surface mine is not in compliance with this chapter, so that the surface mine presents an imminent and substantial endangerment to the public health or the environment, the lead agency or the Attorney General, on behalf of the director, may seek an order from a court of competent jurisdiction enjoining that operation.

(e) Upon a complaint by the director, the department, or the board, the Attorney General may bring an action to recover administrative penalties under this section, and penalties under Section 2207, in any court of competent jurisdiction in this state against any person violating any provision of this chapter or Section 2207, or any regulation adopted pursuant to this chapter or Section 2207. The Attorney General may bring such an action on his or her own initiative if, after examining the complaint and the evidence, he or she believes a violation has occurred. The Attorney General may also seek an order from a court of competent jurisdiction compelling the operator to comply with this chapter and Section 2207.

(f) The lead agency has primary responsibility for enforcing this chapter and Section 2207. In cases where the board is not the lead agency pursuant to Section 2774.4, enforcement actions may be initiated by the director pursuant to this section only after the violation has come to the attention of the director and either of the following occurs:

(1) The lead agency has been notified by the director in writing of the violation for at least 15 days, and has not taken appropriate enforcement action.

(2) The director determines that there is a violation which amounts to an imminent and substantial endangerment to the public health or safety, or to the environment.

The director shall comply with this section in initiating enforcement actions.

(g) Remedies under this section are in addition to, and do not supersede or limit, any and all other remedies, civil or criminal.

§ 2774.2. (a) Within 30 days of the issuance of an order setting administrative penalties under subdivision (c) of Section 2774.1, the operator may petition that legislative body of the lead agency, if the lead agency has issued the order, or the board for orders issued by the director, for review of the

order. If the operator does not petition for review within the time limits set by this subdivision, the order setting administrative penalties shall not be subject to review by any court or agency.

(b) The legislative body of the lead agency or the board shall notify the operator by personal service or certified mail whether it will review the order setting administrative penalties. In reviewing an order pursuant to this section, the record shall consist of the record before the lead agency or the director, and any other relevant evidence which, in the judgment of the legislative body or the board, should be considered to effectuate and implement the policies of this chapter.

(c) The legislative body or the board may affirm, modify, or set aside, in whole or in part, by its own order, any order of the lead agency or the director setting administrative penalties reviewed by the legislative body or the board pursuant to this section.

(d) Any order of the legislative body or the board issued under subdivision (c) shall become effective upon issuance thereof, unless the operator petitions the superior court for review as provided in subdivision (e). Any order shall be served by personal service or by certified mail upon the operator. Payment of any administrative penalty which is specified in an order issued under subdivision (c), shall be made to the lead agency or the director within 30 days of service of the order; however, the payment shall be held in an interest bearing impound account pending the resolution of a petition for review filed pursuant to subdivision (e).

(e) Any operator aggrieved by an order of the legislative body or the board issued under subdivision (c) may obtain review of the order by filing in the superior court a petition for writ of mandate within 30 days following the issuance of the order. Any operator aggrieved by an order of a lead agency or the director setting administrative penalties under subdivision (c) of Section 2774.1, for which the legislative body or board denies review, may obtain review of the order in the superior court by filing in the court a petition for writ of mandate within 30 days following the denial of review. The provisions of Section 1094.5 of the Code of Civil Procedure shall govern judicial proceedings pursuant to this subdivision, except that in every case the court shall exercise its independent judgment. If the operator does not petition for a writ of mandate within the time limits set by this subdivision, an order of the board or the

legislative body shall not be subject to review by any court or agency.

§ 2774.3. The board shall review lead agency ordinances which establish permit and reclamation procedures to determine whether each ordinance is in accordance with state policy, and shall certify the ordinance as being in accordance with state policy if it adequately meets, or imposes requirements more stringent than, the California surface mining and reclamation policies and procedures established by the board pursuant to this chapter.

§ 2774.4. (a) If the board finds that a lead agency either has (1) approved reclamation plans or financial assurances which are not consistent with this chapter, (2) failed to inspect or cause the inspection of surface mining operations as required by this chapter, (3) failed to seek forfeiture of financial assurances and to carry out reclamation of surface mining operations as required by this chapter, (4) failed to take appropriate enforcement actions as required by this chapter, (5) intentionally misrepresented the results of inspections required under this chapter, or (6) failed to submit information to the department as required by this chapter, the board shall exercise any of the powers of that lead agency under this chapter, except for permitting authority.

(b) If, no sooner than three years after the board has taken action pursuant to subdivision (a), the board finds, after a public hearing, that a lead agency has corrected its deficiencies in implementing and enforcing this chapter, and the rules and regulations adopted pursuant to this chapter, the board shall restore to the lead agency the powers assumed by the board pursuant to subdivision (a).

(c) Before taking any action pursuant to subdivision (a), the board shall first notify the lead agency of the identified deficiencies, and allows the lead agency 45 days to correct the deficiencies to the satisfaction of the board. If the lead agency has not corrected the deficiencies to the satisfaction of the board within the 45-day period, the board shall hold a public hearing within the lead agency's area of jurisdiction, upon a 45-day written notice given to the public in at least one newspaper of general circulation within the city or county, and directly mailed to the lead agency and to all surface mining operators within the lead agency's jurisdiction who have submitted reports as required by Section 2207.

(d) Affected surface mining operators and interested persons have the right, at the public hearing, to present oral and written evidence on the

matter being considered. The board may, at the public hearing, place reasonable limits on the right of affected surface mining operators and interested persons to question and solicit testimony.

(e) If, after conducting the public hearing required by subdivision (c), the board decides to take action pursuant to subdivision (a) the board shall, based on the record of the public hearing, adopt written findings which explain all of the following:

(1) The action to be taken by the board.

(2) Why the board decided to take the action.

(3) Why the action is authorized by, and meets the requirements of, subdivision (a).

In addition, the findings shall address the significant issues raised, or written evidence presented, by affected surface mining operators, interested persons, or the lead agency. The transcript of testimony and exhibits, together with all papers and requests filed in the proceedings, shall constitute the exclusive record for decision by the board.

(f) The lead agency, any affected surface mining operator, or any interested person who has presented oral or written evidence at the public hearing before the board pursuant to subdivision (d) may obtain review of the board's action taken pursuant to subdivision (a) by filing in the superior court a petition for writ of mandate within 30 days following the issuance of the board's decision. Section 1094.5 of the Code of Civil Procedure governs judicial proceedings pursuant to this subdivision, except that in every case the court shall exercise its independent judgment. If a petition for a writ of mandate is not filed within the time limits set by this subdivision, the board's action under subdivision (a) shall not be subject to review by any court or agency.

§ 2774.5. (a) If, upon review of an ordinance, the board finds that it is not in accordance with state policy, the board shall communicate the ordinance's deficiencies in writing to the lead agency. Upon receipt of the written communication, the lead agency shall have 90 days to submit a revised ordinance to the board for certification as being in accordance with state policy. The board shall review the lead agency's revised ordinance for certification within 60 days of its receipt. If the lead agency does not submit a revised ordinance within 90 days, the board shall assume full authority for reviewing and approving reclamation plans submitted to the lead agency until the time the lead agency's ordinances are revised in accordance with state policy.

(b) If, upon review of a lead agency's revised ordinance, the board finds the ordinance is still not in accordance with state policy, the board shall again communicate the ordinance's deficiencies in writing to the lead agency. The lead agency shall have a second 90-day period in which to revise the ordinance and submit it to the board for review. If the board again finds that the revised ordinance is not in accordance with state policy or if no revision is submitted, the board shall assume full authority for reviewing and approving reclamation plans submitted to the lead agency until the time the lead agency's ordinances are revised in accordance with state policy.

(c) In any jurisdiction in which the lead agency does not have a certified ordinance, no person shall initiate a surface mining operation unless a reclamation plan has been submitted to, and approved by, the board. Any reclamation plan, approved by a lead agency under the lead agency's ordinance which was not in accordance with state policy at the time of approval, shall be subject to amendment by the board or under the ordinance certified by the board as being in accordance with state policy.

(d) Reclamation plans approved by the board pursuant to this section shall not be subject to modification by the lead agency at a future date but may be amended by the board. Reclamation plans approved by the board shall be remanded to the lead agency upon certification of the lead agency's ordinance, and the lead agency shall approve the reclamation plan as approved by the board, except that a subsequent amendment as may be agreed upon between the operator and the lead agency may be made according to this chapter. No additional public hearing shall be required prior to the lead agency's approval. Nothing in this section shall be construed as authorizing the board to issue a permit for the conduct of mining operations.

§ 2774.6. (a) On or before March 1, 1995, the department shall submit to the Governor and the Legislature a report, prepared by a qualified consultant, which may include an educational institution, which evaluates the effectiveness of lead agencies and the department in implementing this chapter and Section 2207, and in meeting the intent of the Legislature as set forth in Section 2712. The report shall be prepared to the extent that funds are appropriated by the Legislature for this purpose. Prior to encumbering any funds for preparation of the report, the board may conduct a public hearing to receive and respond to public comments concerning the scope of issues to be addressed.

(b) The report shall include, but is not limited to, an evaluation of all of the following:

(1) Compliance with this chapter and Section 2207 by operators of surface mines, lead agencies, the State Geologist, the department, and the board.

(2) Compliance with the reclamation requirements prescribed in Section 2773.

(3) The adequacy of resources needed to carry out this chapter and Section 2207.

(4) The adequacy of information available for purposes of preparing the report.

(5) Any recommended changes to administrative regulations or recommendations for further legislation.

§ 2775. (a) An applicant whose request for a permit to conduct surface mining operations in an area of statewide or regional significance has been denied by a lead agency, or any person who is aggrieved by the granting of a permit to conduct surface mining operations in an area of statewide or regional significance, may, within 15 days of exhausting his rights to appeal in accordance with the procedures of the lead agency, appeal to the board.

(b) The board may, by regulation, establish procedures for declining to hear appeals that it determines raise no substantial issues.

(c) Appeals that the board does not decline to hear shall be scheduled and heard at a public hearing held within the jurisdiction of the lead agency which processed the original application within 30 days of the filing of the appeal, or such longer period as may be mutually agreed upon by the board and the person filing the appeal. In any such action, the board shall not exercise its independent judgment on the evidence but shall only determine whether the decision of the lead agency is supported by substantial evidence in the light of the whole record. If the board determines the decision of the lead agency is not supported by substantial evidence in the light of the whole record it shall remand the appeal to the lead agency and the lead agency shall schedule a public hearing to reconsider its action.

§ 2776. No person who has obtained a vested right to conduct surface mining operations prior to January 1, 1976, shall be required to secure a permit pursuant to this chapter as long as the vested right continues and as long as no substantial changes are made in the operation except in accordance with this chapter. A person shall be deemed to have vested rights if, prior to January 1, 1976, he or she has, in good faith and

in reliance upon a permit or other authorization, if the permit or other authorization was required, diligently commenced surface mining operations and incurred substantial liabilities for work and materials necessary therefor. Expenses incurred in obtaining the enactment of an ordinance in relation to a particular operation or the issuance of a permit shall not be deemed liabilities for work or materials.

The reclamation plan required to be filed under subdivision (b) of Section 2770, shall apply to operations conducted after January 1, 1976, or to be conducted.

Nothing in this chapter shall be construed as requiring the filing of a reclamation plan for, or the reclamation of, mined lands on which surface mining operations were conducted prior to January 1, 1976.

§ 2777. Amendments to an approved reclamation plan may be submitted detailing proposed changes from the original plan. Substantial deviations from the original plan shall not be undertaken until such amendment has been filed with, and approved by, the lead agency.

§ 2778. (a) Reclamation plans, reports, applications, and other documents submitted pursuant to this chapter are public records, unless it can be demonstrated to the satisfaction of the lead agency that the release of that information, or part thereof, would reveal production, reserves, or rate of depletion entitled to protection as proprietary information. The lead agency shall identify such proprietary information as a separate part of the application. Proprietary information shall be made available only to the director and to persons authorized in writing by the operator and by the owner.

(b) A copy of all reclamation plans, reports, applications, and other documents submitted pursuant to this chapter shall be furnished to the director by lead agencies on request.

§ 2779. Whenever one operator succeeds to the interest of another in any incompleated surface mining operation by sale, assignment, transfer, conveyance, exchange, or other means, the successor shall be bound by the provisions of the approved reclamation plan and the provisions of this chapter.

Article 6. Areas of Statewide or Regional Significance

§ 2790. After receipt of mineral information from the State Geologist pursuant to subdivision (c) of Section 2761, the board may by regulation

adopted after a public hearing designate specific geographic areas of the state as areas of statewide or regional significance and specify the boundaries thereof. Such designation shall be included as a part of the state policy and shall indicate the reason for which the particular area designated is of significance to the state or region, the adverse effects that might result from premature development of incompatible land uses, the advantages that might be achieved from extraction of the minerals of the area, and the specific goals and policies to protect against the premature incompatible development of the area.

§ 2791. The board shall seek the recommendations of concerned federal, state, and local agencies, educational institutions, civic and public interest organizations, and private organizations and individuals in the identification of areas of statewide and regional significance.

§ 2792. Neither the designation of an area of regional or statewide significance nor the adoption of any regulations for such an area shall in any way limit or modify the rights of any person to complete any development that has been authorized pursuant to Part 2 (commencing with Section 11000) of Division 4 of the Business and Professions Code, pursuant to the Subdivision Map Act (Division 2 [commencing with Section 66410] of Title 7 of the Government Code), or by a building permit or other authorization to commence development, upon which such person relies and has changed his position to his substantial detriment, and, which permit or authorization was issued prior to the designation of such area pursuant to Section 2790. If a developer has by his actions taken in reliance upon prior regulations obtained vested or other legal rights that in law would have prevented a local public agency from changing such regulations in a way adverse to his interests, nothing in this chapter authorizes any governmental agency to abridge those rights.

§ 2793. The board may, by regulation adopted after a public hearing, terminate, partially or wholly, the designation of any area of statewide or regional significance on a finding that the direct involvement of the board is no longer required.

Article 7. Fiscal Provisions

§ 2795. (a) Notwithstanding any other provision of law, the first two million dollars (\$2,000,000) of moneys from mining activities on federal lands disbursed by the United States each fiscal year to this state pursuant to Section 35 of

the Mineral Lands Leasing Act, as amended (30 U.S.C. Sec. 191), shall be deposited in the Surface Mining and Reclamation Account in the General Fund, which account is hereby created, and may be expended, upon appropriation by the Legislature, for the purposes of this chapter. However, if in any fiscal year, the amount of money disbursed to the state pursuant to Section 35 of the Mineral Lands Leasing Act is less than twenty million dollars (\$20,000,000), then only the first one million one hundred thousand dollars (\$1,100,000) of that money shall be deposited in the Surface Mining and Reclamation Account for the next fiscal year.

(b) Proposed expenditures from the account shall be included in a separate item in the Budget Bill for each fiscal year for consideration by the Legislature. Each appropriation from the account shall be subject to all of the limitations contained in the Budget Act and to all other fiscal procedures prescribed by law with respect to the expenditure of state funds.

§ 2796. (a) The Legislature hereby establishes a state abandoned minerals and mineral materials mine reclamation program for the purpose of administering funds received by the state under the Surface Mining Control and Reclamation Act of 1977, or through amendments to the federal general mining laws (30 U.S.C. Secs. 1, 12A, 16, 161, and 162, and 602, et seq.).

(b) There is hereby created in the State Treasury, the Abandoned Mine Reclamation and Minerals Fund. The money in the fund may be expended, upon appropriation by the Legislature, as required by federal legislation amending the federal general mining laws, and for the following purposes:

(1) Development of an inventory of mined lands, water, and facilities eligible for reclamation.

(2) Establishment by the director of the abandoned minerals and mineral materials mine reclamation program pursuant to the pending federal legislation amending the federal general mining laws, if enacted, that provides for all of the following:

(A) (i) Reclamation and restoration of abandoned surface mined areas.

(ii) For purposes of this subparagraph, "abandoned surface mined area" means mined lands that meet all of the following requirements:

(I) Mining operations have ceased for a period of one year or more.

(II) There is no interim management plan in effect that meets the requirements of Section 2770.

(III) There are no approved financial assurances that are adequate to perform reclamation in accordance with this chapter.

(IV) The mined lands are adversely affected by past mineral mining, other than mining for coal, oil, and gas, and mineral material mining.

(B) Reclamation and restoration of abandoned milling and processing areas.

(C) Sealing, filling, and grading abandoned deep mine entries.

(D) Planting of land adversely affected by past mining to prevent erosion and sedimentation.

(E) Prevention, abatement, treatment, and control of water pollution created by abandoned mine drainage.

(F) Control of surface subsidence due to abandoned deep mines.

(G) The expenses necessary to accomplish the purposes of this section.

(3) To the extent those expenditures are allowed by the applicable statutes:

(A) Grants to lead agencies for the purposes of carrying out this chapter.

(B) Implementation of this chapter and Section 2207 by the department, which may include an offsetting reduction in the amount of reporting fees collected from each active and idle mining operation and deposited in the Mine Reclamation Account pursuant to subdivision (d) of the Section 2207, as determined by the director.

(c) The Abandoned Mine Reclamation and Minerals Fund shall be the depository for all moneys from mining activities on federal lands, as follows:

(1) (A) Disbursements made by the United States each fiscal year to this state pursuant to Section 35 of the Mineral Lands Leasing Act (30 U.S.C. Sec. 191), with respect to royalties levied on the production of locatable minerals or mineral concentrates from any mining claim located on federal lands in the state pursuant to the pending federal legislation amending the federal general mining laws, but excluding oil, gas, and geothermal revenues.

(B) The federal funds specified in this paragraph do not include the funds deposited in the Surface Mining and Reclamation Account pursuant to Section 2795, the funds deposited in the Geothermal Resources Development Account pursuant to Section 3820, or the funds deposited in the State School Fund pursuant to Section 12320 of the Education Code.

(2) Grants made by the Secretary of the Interior to this state from the Abandoned Minerals Mine Reclamation Fund pursuant to the pending federal legislation amending the federal general mining laws, for the implementation of an

abandoned minerals and mining materials mine reclamation program.

(d) The expenditure of money from the Abandoned Mine Reclamation and Minerals Fund shall reflect the

following priorities and other priorities as specified in federal statute in the following ranking:

(1) The protection of public health and safety and the environment from the adverse effects of past minerals and mineral materials mining practices.

(2) The protection of property that is in extreme danger as a result of past minerals and mineral materials mining practices.

(3) The restoration of land and water resources previously degraded by the adverse effects of past minerals and mineral materials mining practices.

(e) Proposed expenditures from the Abandoned Mine Reclamation and Minerals Fund shall be included in a separate item in the Budget Bill for each fiscal year for consideration by the Legislature. Each appropriation from the fund shall be subject to all the limitations contained in the Budget Act and to all other fiscal procedures prescribed by law with respect to the expenditure of state funds.

NOTE: Section 2796 shall become operative upon the effective date of any federal legislation which is enacted requiring the payment of a royalty on the production of locatable minerals, produced from any mining claim located or converted on federal lands in this state, excluding royalties paid on oil, gas, and geothermal lease activities, and not already subject to disposition under any of the following:

- (1) The Mineral Lands Leasing Act (30 U.S.C. Sec. 191).
- (2) The Geothermal Steam Act of 1970 (30 U.S.C. Sec. 100).
- (3) The Materials Act of 1947 (30 U.S.C. Sec. 601).
- (4) The Mineral Leasing Act for Acquired Lands (30 U.S.C. Sec. 351).

ANNUAL REPORTING REQUIREMENTS AND REPORTING FEE

Public Resources Code Section 2207

(Repealed and added by AB 3551, Chapter 1097, Statutes of 1990, Sher, Amended by AB 3903, Chapter 1101, Statutes of 1990, Sher, AB 1506, Chapter 845, Statutes of 1991, Sher, AB 3098, Chapter 1077, Statutes of 1992, Sher, and SB 741, Chapter 1287, Statutes of 1993, Rogers)

§ 2207(a) The owner, lessor, lessee, agent, manager, or other person in charge of any mining operation of whatever kind or character within the state shall forward to the director not later than July 1, 1991, and every year thereafter not later than an anniversary date established by the director, upon forms which will be furnished by the board, a report which identifies all of the following:

(1) The name, address, and telephone number of the person, company, or other owner of the mining operation.

(2) The name, address, and telephone number of a designated agent who resides in this state, and who will receive and accept service of all orders, notices, and processes of the lead agency, board, director, or court.

(3) The location of the mining operation, its name, its mine number as issued by the Bureau of Mines or the director, its section, township, range, latitude, longitude, and approximate boundaries of the mining operation marked on a United States Geological Survey 7½-minute or 15-minute quadrangle map.

(4) The lead agency.

(5) The approval date of the mining operation's reclamation plan.

(6) The mining operation's status as active, idle, reclaimed, or in the process of being reclaimed.

(7) The commodities produced by the mine and the type of mining operation.

(8) Proof of annual inspection by the lead agency, starting with the 1992 report.

(9) Proof of financial assurances.

(10) Ownership of the property, including government agencies, if applicable, by the assessor's parcel number, and total assessed value of the mining operation.

(11) The approximate permitted size of the mining operation subject to Chapter 9 (commencing with Section 2710), in acres.

(12) The approximate total acreage of land newly disturbed by the mining operation during the

previous calendar year.

(13) The approximate total of disturbed acreage reclaimed during the previous calendar year.

(14) The approximate total unreclaimed disturbed acreage remaining as of the end of the calendar year.

(15) The total production for each mineral commodity produced during the previous year.

(16) A copy of any approved reclamation plan and any amendments or conditions of approval to any existing reclamation plan approved by the lead agency.

(b) Every year, not later than the anniversary date established by the director, the person submitting the report pursuant to subdivision (a) shall forward to the lead agency, upon forms which shall be furnished by the board, a report which provides all of the information specified in paragraphs (1) to (14), inclusive, of subdivision (a).

(c) Subsequent reports shall include only changes in the information submitted for the items described in subdivision (a), except that, instead of the approved reclamation plan, the reports shall include any reclamation plan amendments approved during the previous year. The reports shall state whether review of a reclamation plan, financial assurances, or an interim management plan is pending under subdivision (b), (c), (d), or (h) of Section 2770, or whether an appeal before the board or lead agency governing body is pending under subdivision (e) or (h) of Section 2770. The director shall notify the person submitting the report and the owner's designated agent in writing that the report and the fee required pursuant to subdivision (d) have been received, specify the anniversary date by which the mining operation shall submit reports, specify the mining operation's mine number if one has not been issued by the Bureau of Mines, and notify the person and agent of any deficiencies in the report within 90 days of receipt. That person or agent shall have 30 days from receipt of the notification to correct the noted deficiencies and forward the revised reports to the director and the

lead agency. Any person who fails to comply with this section, or knowingly provides incorrect or false information in reports required by this section, may be subject to an administrative penalty as provided in subdivision (c) of Section 2774.1.

(d) (1) The board shall impose, by regulation, pursuant to paragraph (2), an annual reporting fee on, and method for collecting annual fees from, each active or idle mining operation. The maximum fee for any single mining operation shall not exceed two thousand dollars (\$2,000) annually and shall not be less than fifty dollars (\$50) annually.

(2) (A) The board shall adopt, by regulation, a schedule of fees authorized under paragraph (1) to cover the department's cost in carrying out this section and Chapter 9 (commencing with Section 2710), as reflected in the Governor's Budget, and may adopt those regulations as emergency regulations. In establishing the schedule of fees to be paid by each active and idle mining operation, the fees shall be calculated on an equitable basis reflecting the size and type of operation. The board shall also consider the total assessed value of the mining operation, the acreage disturbed by mining activities, and the acreage subject to the reclamation plan.

(B) Regulations adopted pursuant to this subdivision shall be adopted by the board in accordance with Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code. The adoption of any emergency regulations pursuant to this subdivision shall be considered necessary to address an emergency and shall be considered by the Office of Administrative Law to be necessary for the immediate preservation of the public peace, health, safety, and general welfare.

(3) For the 1991-92 fiscal year the total revenue generated by the reporting fees established pursuant to this subdivision shall not exceed, and may be less than, one million one hundred thirty-two thousand dollars (\$1,132,000), which shall be adjusted in the 1992-93 and 1993-94 fiscal years to reflect increases in the cost of living, as measured by the California Consumer Price Index for all urban consumers, calendar year averages, using the percentage change in the previous year. Beginning in the 1994-95 fiscal year, and for subsequent fiscal years the total revenue generated by the reporting fees shall not exceed, and may be less than, the amount of one million dollars (\$1,000,000), as adjusted for the cost of living beginning with the 1991-92 fiscal

year and annually thereafter. If the director determines that the revenue collected during the preceding fiscal year was greater or less than the cost to operate the program, the board shall adjust the fees to compensate for the overcollection or undercollection of revenues.

(4) The reporting fees established pursuant to this subdivision shall be deposited in the Mine Reclamation Account, which is hereby created. Any fees, penalties, interest, fines, or charges collected by the director or board pursuant to this chapter or Chapter 9 (commencing with Section 2710) shall be deposited in the Mine Reclamation Account. The money in the account shall be available to the department and board, upon appropriation by the Legislature, solely to carry out this section and Chapter 9 (commencing with Section 2710), and up to three hundred thousand dollars (\$300,000) shall be available to the department upon appropriation by the Legislature to contract for preparation of the report required by Section 2774.6

(5) In case of late payment of the reporting fee, a penalty of not less than one hundred dollars (\$100) or 10 percent of the amount due, whichever is greater, plus interest at the rate of 1 ½ percent per month, computed from the delinquent date of the assessment until and including the date of payment, shall be assessed. New mining operations which have not submitted a report shall submit a report prior to commencement of operations. The new operation shall submit its fee according to the reasonable fee schedule adopted by the board, and the month that the report is received shall become that operation's anniversary month.

(e) The lead agency may impose a fee upon each mining operation to cover the reasonable costs incurred in implementing this chapter and Chapter 9 (commencing with Section 2710) .

(f) For purposes of this section, "mining operation" has the same meaning as "surface mining operation" as defined in Section 2735, unless excepted by Section 2714. For the purposes of fee collections only, "mining operation" may include one or more mines operated by a single operator or mining company on one or more sites, if the total annual combined mineral production for all sites is less than 100 troy ounces for precious metals, if precious metals are the primary mineral commodity produced, or less than 100,000 short tons if the primary mineral commodity produced is not precious metals.

(g) Any information in reports submitted pursuant to subdivision (a) which includes or otherwise indicates the total mineral production,

reserves, or rate of depletion of any mining operation shall not be disclosed to any member of the public, as defined in subdivision (f) of Section 6252 of the Government Code. Other portions of the reports are public records unless excepted by statute. Statistical bulletins based on these reports and published under Section 2205 shall be compiled to show, for the state as a whole and separately for each lead agency, the total of each mineral produced therein. In order not to disclose the production, reserves, or rate of depletion from any identifiable mining operation, no production figure shall be published or otherwise

disclosed unless that figure is the aggregated production of not less than three mining operations. If the production figure for any lead agency would disclose the production, reserves, or rate of depletion of less than three mining operations or otherwise permit the reasonable inference of the production, reserves, or rate of depletion of any identifiable mining operation, that figure shall be combined with the same such figure of not less than two other lead agencies without regard to the location of the lead agencies. The bulletin shall be published annually by June 30 or as soon thereafter as practicable.

SITE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF CONSERVATION

Public Resources Code Section 2208
(Amended by AB 2943 [Allen, Chapter 999, Statutes of 1992])

§ 2208. The director or a qualified assistant may at any time enter or examine any and all mines, quarries, wells, mills, reduction works, refining works, and other

mineral properties or working plants in this state in order to gather data to comply with the provisions of this chapter.

PURCHASE AND USE OF MINED MATERIALS BY STATE AGENCIES

Public Contract Code Section 10295.5
(Amended by AB 3098 [Sher, Chapter 1077, Statutes of 1992]
and AB 723 [Sher, Chapter 278, Statutes of 1993])

10295.5 (a) Notwithstanding any other provision of law, no state agency shall purchase or utilize sand, gravel, aggregates, or other minerals produced from a surface mining operation subject to the Surface Mining and Reclamation Act of 1975 (Chapter 9 (commencing with Section 2710) of Division 2 of the Public Resources Code), unless the operation is identified in the list published pursuant to subdivision (b) of Section 2717 of the Public Resources Code as having either of the following:

(1) An approved reclamation plan and financial assurances covering the affected surface mining operation.

(2) An appeal pending before the State Mining and Geology Board pursuant to subdivision (e) of Section 2770 of the Public Resources Code with respect to the reclamation plan or financial assurances.

(b) The Department of General Services shall revise its procedures and procurement specifications for state purchases of sand, gravel, aggregates, and other minerals to ensure maximum compliance with this section.

(c) For purposes of the section, "minerals" means any naturally occurring chemical element or compound, or groups of elements and compounds,

formed from inorganic processes and organic substances, including, but not limited to, coal, peat, and bituminous rock, but excluding geothermal resources, natural gas, and petroleum.

(d) The requirements of this section shall apply to mining operations on federal lands or Indian lands that are subject to the Surface Mining and Reclamation Act of 1975 (Chapter 9 (commencing with Section 2710) of Division 2 of the Public Resources Code) pursuant to a memorandum of understanding between the Department of Conservation and the federal agency having jurisdiction over the lands.

(e)(1) This section does not apply to construction or maintenance contracts if the contractor has entered into a written subcontract, executed prior to July 1, 1993, for the purchase of materials from a mine operator that would not otherwise qualify under the list published pursuant to subdivision (b) of Section 2717 of the Public Resources Code.

(2) This subdivision shall become inoperative on July 1, 1996.

(f) This section shall become operative on July 1, 1993.

LIABILITY LIMITATIONS FOR REMEDATION/RECLAMATION OF ABANDONED MINES

See Water Code Section 13397 et seq.
(Added by SB 1108 [Leslie, Chapter 878, Statutes of 1995])

NOTE: While this section amends the California Water Code, liabilities under the federal Clean

Water Act may remain until similar federal amendments are adopted.

STATE MINING AND GEOLOGY BOARD RECLAMATION REGULATIONS

Article 1. Surface Mining and Reclamation Practice

§ 3500. Purpose. It is the purpose of this subchapter to establish state policy for the reclamation of mined lands and the conduct of surface mining operations in accord with the general provisions set forth in Public Resources Code, Division 2, Chapter 9, Section 2710 et seq. (Surface Mining and Reclamation Act of 1975, as amended by Statutes of 1980).

Note: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2710-2795, Public Resources Code.

§ 3501. Definitions. The following definitions as used herein shall govern the interpretation of these regulations:

Agricultural Activity. The cultivation and tillage of the soil, dairying, the production, cultivation, growing and harvesting of any agricultural commodity, the raising of livestock or poultry, and any practices performed by a farmer or on a farm as incident to or in conjunction with those farming operations, including preparation of these products for market.

Angle of Repose. The maximum angle of slope (measured from horizontal plane) at which loose cohesionless material will come to rest on a pile of similar material.

Backfill. Earth, overburden, mine waste or imported material used to replace material removed during mining.

Borrow Pits. Excavations created by the surface mining of rock, unconsolidated geologic deposits or soil to provide material (borrow) for fill elsewhere.

Critical Gradient. The maximum stable inclination of an unsupported slope under the most adverse conditions that it will likely experience, as determined by current engineering technology.

Excavations for On-Site Construction. Earth material moving activities that are required to prepare a site for construction of structures, landscaping, or other land improvements (such as excavation, grading, compaction, and the creation of fills and embankments), or that in and of themselves constitute engineered works (such as dams, road cuts, fills, and catchment basins).

Grading. To bring an existing surface to a designed form by cutting, filling, and/or smoothing operations.

Minerals. Any naturally occurring chemical element or compound, or groups of elements and compounds, formed from inorganic processes and organic substances, including, but not limited to, coal, peat, and bituminous rock, but excluding geothermal resources, natural gas, and petroleum.

Person. Any individual, firm, association, corporation, organization, or partnership, or any city, county, district, or the state or any department or agency thereof.

Reclamation Plan. The applicant's (operator's) completed and approved plan for reclaiming the lands affected by his surface mining operations conducted after January 1, 1976, as called for in Section 2772 of the Act.

Resoiling. The process of artificially building or reconstructing a soil profile.

Stream Bed Skimming. Excavation of sand and gravel from stream bed deposits above the mean summer water level or stream bottom, whichever is higher.

Surface Mining Operations. In addition to the provisions of Section 2735 of the Act, borrow pitting, streambed skimming, segregation and stockpiling of mined materials (and recovery of same) are deemed to be surface mining operations unless specifically excluded under Section 2714 of the Act or Section 3505 of these regulations.

Temporarily Deactivated Operation. A surface mine that has been closed down and that the operator has maintained in the expectation of reopening it when the conditions justify.

Topsoil. The upper part of the soil profile that is relatively rich in humus, which is technically known as the A-horizon of the soil profile.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2726-2735, Public Resources Code.

§ 3502. The Reclamation Plan.

(a) Objectives. Reclamation plans shall be developed to attain the objectives of Public Resources Code Section 2712(a)-(c).

(b) Reclamation Plan Elements. In addition to the information required by Public Resources Code

Section 2772, the following elements shall be included in the reclamation plan:

(1) The environmental setting of the site of operations and the effect that possible alternate reclaimed site conditions may have upon the existing and future uses of surrounding lands.

(2) The public health and safety, giving consideration to the degree and type of present and probable future exposure of the public to the site.

(3) The designed steepness and proposed treatment of the mined lands' final slopes shall take into consideration the physical properties of the slope material, its probable maximum water content, landscaping requirements, and other factors. In all cases, reclamation plans shall specify slope angles flatter than the critical gradient for the type of material involved. Whenever final slopes approach the critical gradient for the type of material involved, regulatory agencies shall require an engineering analysis of the slope stability. Special emphasis on slope stability and design shall be necessary when public safety or adjacent property may be affected.

(4) Areas mined to produce additional materials for backfilling and grading, as well as settlement of filled areas, shall be considered in the reclamation plan. Where ultimate site uses include roads, building sites, or other improvements sensitive to settlement, the reclamation plans shall include compaction of the fill materials in conformance with good engineering practice.

(5) Disposition of old equipment.

(6) Temporary stream or watershed diversions.

(c) Adequacy. In judging the adequacy of a particular reclamation plan in meeting the requirements described herein and within the Act, the lead agency shall consider the physical and land-use characteristics of the mined lands and their surrounding area pursuant to Public Resources Code Section 2773.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2712(a)-(c), 2756-2757, 2770 and 2772-2773, Public Resources Code.

§ 3503. Surface Mining and Reclamation Practice.

The following are minimum acceptable practices to be followed in surface mining operations:

(a) Soil Erosion Control.

(1) The removal of vegetation and overburden, if any, in advance of surface mining shall be kept to the minimum.

(2) Stockpiles of overburden and minerals shall be managed to minimize water and wind erosion.

(3) Erosion control facilities such as retarding basins, ditches, streambank stabilization, and diking shall be constructed and maintained where necessary to control erosion.

(b) Water Quality and Watershed Control.

(1) Settling ponds or basins shall be constructed to prevent potential sedimentation of streams at operations where they will provide a significant benefit to water quality.

(2) Operations shall be conducted to substantially prevent siltation of ground-water recharge areas.

(c) Protection of Fish and Wildlife Habitat. All reasonable measures shall be taken to protect the habitat of fish and wildlife.

(d) Disposal of Mine Waste Rock and Overburden. Permanent piles or dumps of mine waste rock and overburden shall be stable and shall not restrict the natural drainage without suitable provisions for diversion.

(e) Erosion and Drainage. Grading and revegetation shall be designed to minimize erosion and to convey surface runoff to natural drainage courses or interior basins designed for water storage. Basins that will store water during periods of surface runoff shall be designed to prevent erosion of spillways when these basins have outlet to lower ground.

(f) Resoiling. When the reclamation plan calls for resoiling, coarse hard mine waste shall be leveled and covered with a layer of finer material or weathered waste. A soil layer shall then be placed on this prepared surface. Surface mines that did not salvage soil during their initial operations shall attempt, where feasible, to upgrade remaining materials. The use of soil conditioners, mulches, or imported topsoil shall be considered where revegetation is part of the reclamation plan and where such measures appear necessary. It is not justified, however, to denude adjacent areas of their soil, for any such denuded areas must in turn be reclaimed.

(g) Revegetation. When the reclamation plan calls for revegetation the available research addressing revegetation methods and the selection of species having good survival characteristics, for the topography, resoiling characteristics, and climate of the mined areas shall be used.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2756 and 2757, Public Resources Code.

§ 3504. Administration by Lead Agency.

(a) Record Keeping. The lead agency shall establish and maintain inhouse measures and procedures to ensure organized record-keeping and monitoring of surface mining reclamation under its jurisdiction. The lead agency shall forward a copy of each permit and approved reclamation plan to the California Division of Mines and Geology (Sacramento).

(b) Performance Assurances. The lead agency shall ensure that the objectives of the reclamation plan will be attained. This may include provisions for liens, surety bonds or other security, to guarantee the reclamation in accordance with the approved reclamation plan.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2757, 2758(b), 2774(a) and 2778, Public Resources Code.

§ 3505. Special Provisions.

(a) Exemptions.

(1) In addition to the provisions of Public Resources Code Section 2714(a), (c) and (d), any surface mining operation that does not involve either the removal of a total of more than 1000 cubic yards of minerals, ores, and overburden, or involve more than one acre in any one location, shall be exempt from the provisions of the Act.

(2) The purpose of this subdivision is to define the criteria of a "flood control facility," the clean out of which is exempt from the requirements of the Surface Mining and Reclamation Act of 1975 under PRC 2714(a) and (b). It is intended that cleaning out of a previously engineered, constructed facility for which approved design plans exist is an activity to restore the usefulness of that flood control facility to its original design purpose. It is not the intent of this subsection to exempt the removal of materials from natural channels.

The removal of post construction accumulated materials from a responsible public agency approved, managed, engineered, constructed facility intended for the purpose of water retention or detention, debris retention, or from a flood water conveyance, where the post extraction condition, capacity or grade of the facility or conveyance does not exceed the as-built approved design specification contained in the approved documents for the facility or conveyance, shall be exempt from the provisions of the Act.

(3) The excavation, grading, or transportation of mineral materials, including overburden, exclusive of commercial surface mining activities

as defined in Public Resources Code Section 2714(d), that is wholly integral and necessary to the conduct of agricultural activities either onsite or on non-contiguous parcels, shall meet the requirements of Public Resources Code Section 2714(a) for farming excavations or grading. This exemption does not apply to the exportation of mineral materials, including overburden, from the property that is in excess of 1,000 cubic yards for commercial purposes.

(b) Vested Rights. The permit and reclamation plan requirements for persons with vested rights are stated in Public Resources Code Section 2776.

Where a person with vested rights continues surface mining in the same area subsequent to January 1, 1976, he shall obtain an approval of a reclamation plan covering the mined lands disturbed by such subsequent surface mining. In those cases where an overlap exists (in the horizontal and/or vertical sense) between pre- and post-Act mining, the reclamation plan shall call for reclamation proportional to that disturbance caused by the mining after the effective date of the Act.

NOTE: Authority cited: Sections 2714(d) and 2755, Public Resources Code. Reference: Sections 2714, 2758(c) and 2776, Public Resources Code.

Article 6. Mineral Resource Management Policies

§ 3675. Definitions. The following definitions as used herein shall govern the interpretation of these regulations:

Compatible Land Use. Land uses inherently compatible with mining and/or that require a minimum public or private investment in structures, land improvements, and which may allow mining because of the relative economic value of the land and its improvements. Examples of such uses may include, but shall not be limited to, very low density residential, geographically extensive but low impact industrial, recreational, agricultural, silvicultural, grazing, and open space.

Incompatible Land Use. Land uses inherently incompatible with mining and/or that require public or private investment in structures, land improvements, and landscaping and that may prevent mining because of the greater economic value of the land and its improvements. Examples of such uses may include, but shall not be limited to, high density residential, low density residential with high unit value, public facilities, geographically limited but impact intensive industrial, and commercial.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2761-2762, Public Resources Code.

§ 3676. Mineral Resource Management Policies.

Lead agency mineral resource management policies adopted pursuant to the provisions of PRC Section 2762 shall include but not be limited to, the following:

(a) A summary of the information provided by the classification and/or designation reports, or incorporation of PRC Sections 2710 et seq., and state policy by reference, together with maps of the identified mineral deposits or incorporation by reference of the classification and/or designation maps provided by the Board.

(b) Statements of policy in accordance with the provisions of PRC Section 2762(a).

(c) Implementation measures that shall include:

(1) Reference in the general plan of the location of identified mineral deposits, and a discussion of those areas targeted for conservation and possible future extraction by the lead agency.

(2) Use of overlay maps or inclusion of information on any appropriate planning maps to clearly delineate identified mineral deposits and those areas targeted by the lead agency for conservation and possible future extraction.

(3) At least one of the following:

(A) Use of special purpose overlay zones, mineral resource/open space zoning, or any other appropriate zoning that identifies the presence of identified mineral deposits and restricts the encroachment of incompatible land uses in those areas that are to be conserved.

(B) Record, on property titles in the affected mineral resource areas, a notice identifying the presence of identified mineral deposits.

(C) Impose conditions upon incompatible land uses in and surrounding areas containing identified mineral deposits for the purpose of mitigating the significant land use conflicts prior to approving a use that would otherwise be incompatible with mineral extraction.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2757 and 2761-63, Public Resources Code.

Article 8. Fee Schedule

§ 3695. Definitions.

The following definitions shall govern the interpretation of these regulations:

"Produced Minerals" means minerals extracted

at the site of the mining operation, and either:

(a) sold, given or otherwise moved off the site of the operation, as defined in the approved reclamation plan, or;

(b) used onsite for production of completed products (e.g. cement, bricks, asphaltic concrete, etc.).

Stockpiles of mineral products that remain on the site, as defined in the lead agency approved reclamation plan, are not produced minerals for purposes of these regulations.

"Primary Mineral Commodity Produced" means the produced mineral that provides the highest dollar values sales for the operation.

"Board" means State Mining and Geology Board.

As used in Section 3697 and 3699 "Mining Company" means any entity, corporation, partnership, parent or holding company. Any subsidiaries of the above are deemed to be part of the mining company.

As used in Section 3699, "Gross Income" means all income from whatever source derived as defined by, and determined in accordance with, Section 61 of the Internal Revenue Code, Title 26, U.S.C.S.

"Aggregate Products" means decomposed granite, sand and gravel, slag, or stone.

"Industrial Minerals" means borates, cinders, clay, diatomite, dolomite, gypsum, iron ore, lime, limestone, perlite, pumice, rare earth elements, saline compounds, salt, shale, silica, specialty sand, abrasives, asbestos, barite, bituminous rock, decorative rock, dimension stone, feldspar, fluorite, gemstones, graphite, kyanite, lignite, lithium, magnesite, mica, olivine, peat, phosphate, potash, pyrophyllite, quartz crystal, sea shells, sercite, talc, vermiculite, wollastonite, zeolites, and zircon.

"Gold, Silver, and Precious Metals" means gold (lode), gold (placer), platinum group metals, and silver.

"Base Metals and Other Metals" means antimony, arsenic, chromite, copper, lead, manganese, mercury, molybdenum, nickel, pyrite, tin, titanium, tungsten, uranium, vanadium, and zinc.

NOTE: Authority cited: Sections 2207(d)(1)-(2), Public Resources Code. Reference: Sections 2207(d)(1)-(2) and 2207(f), Public Resources Code.

§ 3696. Operations Subject to Fees.

(a) Each surface mining operation, as defined in Public Resources Code Sections 2719, 2727.1, 2735, and California Code of Regulations, Title 14, Section 3501, unless exempted by Public Resources Code Section 2714, shall be assessed an annual reporting fee according to the schedule established

pursuant to in Section 3698 each May 1 following the reporting calendar year.

(b) In addition to the annual reporting fee, each surface mining operation that is newly permitted shall be assessed an initial reporting fee according to the schedule in Section 3698 of this article.

NOTE: Authority cited: Section 2207, Public Resources Code. Reference: Section 2207, Public Resources Code.

§ 3697. Fees Due and Delinquent.

(a) The annual reporting fee and Mining Operation Annual Report (MRRC-2) are due and payable to the Department of Conservation not later than July 1 for the prior reporting year, by the owner or operator of record on the preceding December 31. The initial reporting fee for a new surface mining operation, together with an initial report, are due and payable to the Department of Conservation not later than thirty (30) days after permit approval. An owner or operator of a surface mining operation submitting an annual reporting fee or annual report after July 1, or more than thirty (30) days after permit approval, shall be assessed a penalty fee and interest as provided in Public Resources Code Section 2207 (c) and (d)(5).

(b) Except as otherwise provided in (c), for the purposes of this article, surface mining operations are deemed to be discrete operations per each reclamation plan required.

(c) Multiple site surface mining operations are deemed to be those active surface mining operations which meet all of the following criteria:

(1) One or more surface mining operations are operated on one or more sites by a single operator or mining company;

(2) The total annual combined mineral production for all sites is less than 100 troy ounces for precious metals, if precious metals are the primary mineral commodity produced, or less than 100,000 short tons if the primary mineral commodity product is not precious metals;

(3) All of the sites included are active;

(4) All of the operator or company's entire active surface mining operations located in the State of California are tied to, or located on, the listed sites; and

(d) In addition to the criteria provided in (c), multiple site mining operator's submittal of the annual report form (Mining Operation Annual Report, Form MRRC-2) shall be accompanied by a multiple site form (Multiple Site Single Fee Request, Form MRRC-4M) supplied by the Department of Conservation.

NOTE: Authority cited: Section 2207, Public Resources Code. Reference: Section 2207, Public Resources Code.

§ 3698. Fees Calculation.

(a) The annual reporting fee for a multiple site surface mining operation shall be two thousand dollars (\$2000).

(b) The annual reporting fee for surface mining operations which are no longer in operation with no intent to resume, which had no mineral production in the reporting calendar year, and

(1) Which did not complete reclamation during the reporting calendar year shall be \$50; or

(2) Which completed reclamation during the reporting calendar year shall be \$50. Proof of completion of reclamation, approved by the lead agency, shall be submitted with this fee.

(c) Except as otherwise provided, the annual reporting fee for surface mining operations shall be calculated on the total primary mineral commodity produced in the reporting calendar year. A factor to determine the amount of fee adjustments shall be calculated according to the following formula:

$$[(ATRY) - (ATPY)] / (ATPY) = \text{Factor}$$

Where: Adjusted Total (AT) equals the Amount Requested by the Director, less a projected amount from fixed fees set in CCR §3698 (a)(b)(d)(e) and CCR §3699, and less a projected amount from mine operations subject to the maximum fee amount of \$2,000;

Where: ATRY is the Adjusted Total for the current "Reporting Year"

Where: ATPY is the Adjusted Total for the "Prior Year"

The new Fee Amount for each category is determined by the following formula (calculated amounts cannot be less than \$50 or more than \$2,000, and may be rounded to the nearest \$5 (five dollars):

Formula 1: Current Year Reporting Fee = Prior Year Reporting Fee times (1 + Factor) if Factor is positive;

Formula 2: Current Year Reporting Fee = Prior Year Reporting Fee times (1 - Factor) if Factor is negative.

(1) Operations where the primary mineral commodity produced is either aggregate products or industrial minerals shall be assessed a fee as follows:

Tons	Fee in Dollars
0 - 100	Formula 1 or 2 (not less than \$50)
> 100 - 1,000	Formula 1 or 2
> 1,000 - 10,000	Formula 1 or 2
> 10,000 - 50,000	Formula 1 or 2
> 50,000 - 100,000	Formula 1 or 2
> 100,000	2,000

(2) Operations where the primary mineral commodity produced is gold, silver, or precious metals shall be assessed a fee as follows:

Ounces	Fee in Dollars
0 - 1	Formula 1 or 2 (not less than \$50)
> 1 - 10	Formula 1 or 2
> 10 - 50	Formula 1 or 2
> 50 - 150	Formula 1 or 2
> 150 - 300	Formula 1 or 2
> 300	2,000

(3) Operations where the primary mineral commodity produced is base metals or other metals shall be assessed a fee as follows:

Pounds	Fee in Dollars
0 - 10	Formula 1 or 2 (not less than \$50)
> 10 - 100	Formula 1 or 2
> 100 - 1,000	Formula 1 or 2
> 1,000 - 10,000	Formula 1 or 2
> 10,000 - 20,000	Formula 1 or 2
> 20,000	2,000

(d) The initial reporting fee for surface mining operations shall be five hundred dollars (\$500).

(e) The annual reporting fee for newly permitted surface mining operations which have not yet begun operations shall be fifty dollars (\$50).

NOTE: Authority cited: Section 2207, Public Resources Code. Reference: Section 2207, Public Resources Code.

§ 3699. Low Gross Exemptions.

(a) For the calendar reporting year, a single operator or mining company may file with the Office of Mine Reclamation of the Department of Conservation, a written request for an exemption from the method of fee assessment set forth in Section 3698. Neither the State, nor any county, city, district or other political subdivision shall be eligible for an exemption under this Section. A request for an exemption must be filed on a form (Low Gross Exemption Fee Request, Form MRRC-4L) supplied by the Department of Conservation and received by the Department of Conservation

by July 1 following the calendar reporting year. The Department of Conservation shall grant the exemption if information submitted and confirmed by the annual report form and approved reclamation plan or plans, clearly demonstrates that the operation meets the following criteria:

(1) material is extracted from one surface mining operation, and lead agency approval of a reclamation plan and financial assurance has been obtained; and

(2) all of the single operator or mining company's surface mining operation located in the State of California is tied to, or located on, one site; and

(3) the amount of the operator's gross income from the surface mining operation for the reporting calendar year was less than \$100,000, and proof of gross income is supplied in the form of a signed federal tax return or returns accompanied by a completed and signed Federal Internal Revenue Service Form 4506, or a report prepared and signed by a certified public accountant; and

(4) the owner or operator has submitted an annual reporting fee of two hundred dollars (\$200).

(b) For any request received on or before July 1 following the reporting calendar year the Department may afford the applicant one 30-day period in which to correct minor deficiencies in the application.

(c) If the Department of Conservation determines that an exemption is not warranted, the operator may appeal that determination to the Board. The appeal must be submitted in writing within fifteen (15) days of the denial of exemption notification by the Department of Conservation. The Chairman of the Board or his designee (Board Member), shall determine whether the Board has jurisdiction for the purposes of an appeal. In order for the Board to have jurisdiction the appeal must:

(1) Demonstrate the exemption request was complete and filed in a timely fashion;

(2) Specifically relate to the exemption criteria outlined in this Section; and

(3) Specify the appellant's arguments for granting the exemption.

(d) If the appeal is within the Board's jurisdiction, the Board, based on all the evidence in the record, may affirm the Department's decision or grant the exemption. If the operator does not appeal, the appeal is not within the Board's jurisdiction, or the Board affirms the Department's decision, the operator or owner shall submit an annual reporting fee calculated upon the total mineral commodity produced pursuant to Section 3698. Such fee shall be submitted within thirty (30) days of notification by the Department of Conservation or the Board. An operator or owner submitting an annual reporting fee

later than thirty (30) days after notification shall be assessed a penalty and interest as provided in Public Resources Code Section 2207(d)(5).

NOTE: Authority cited: Section 2207, Public Resources Code. Reference: Section 2207, Public Resources Code.

Article 9. Reclamation Standards

§ 3700. Applicability. Reclamation of mined lands shall be implemented in conformance with the standards in this Article.

(a) The standards shall apply to each surface mining operation to the extent that:

(1) they are consistent with required mitigation identified in conformance with the California Environmental Quality Act, provided that such mitigation is at least as stringent as the standards; and

(2) they are consistent with the planned or actual subsequent use or uses of the mining site.

(b) Where an applicant demonstrates to the satisfaction of the lead agency that an exception to the standards specified in this article is necessary based upon the approved end use, the lead agency may approve a different standard for inclusion in the approved reclamation plan. Where the lead agency allows such an exception, the approved reclamation plan shall specify verifiable, site-specific standards for reclamation. The lead agency may set standards which are more stringent than the standards set forth in this Article; however, in no case may the lead agency approve a reclamation plan which sets any standard which is less stringent than the comparable standard specified in this Article.

(c) When substantial amendments are proposed to reclamation plans which were approved prior to January 15, 1993, the standards set forth in this Article shall be applied by the lead agency in approving or denying approval of the amended reclamation plan.

(d) The standards in this Article shall not apply to mining operations:

(1) which completed reclamation prior to January 15, 1993, in conformance with an approved reclamation plan; or

(2) for which a reclamation plan has been approved prior to January 15, 1993.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3701. Definitions. The following definitions shall govern the interpretation of these regulations:

"Arid" means landscapes with an average annual precipitation of five inches or less.

"Contamination" means an impairment of the quality of the waters of the state to a degree which creates a hazard to the public health through poisoning or through the spread of disease.

"Highwall" means the unexcavated face of exposed overburden and ore in a surface mine.

"Indigenous Plants" means plants occurring naturally in an area, not introduced.

"Native Species" means plant species indigenous to California, using pre-European as the historic time reference.

"Noxious Weeds" means any species of plant that is or is likely to become destructive or difficult to control or eradicate, and is termed to be so by the Director of the Department of Food and Agriculture in section 4500, Title 3 of the California Code of Regulations, pursuant to the Food and Agriculture Code section 5004 et seq.

"Vegetative Cover" means the vertical projection of the crown or shoot area of a species to the ground surface expressed as a percentage of the reference area (percentage can be greater than 100 percent).

"Vegetative Density" means the number of individuals or stems of each species rooted within the given reference area.

"Vegetative Species-richness" means the number of different plant species within the given reference area.

"Wetlands" for the purposes of these regulations, the definition of wetlands shall be the same as defined in the California Fish and Game Code, section 2785, subdivision (g).

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3702. Financial Assurances. Lead agencies shall require financial assurances for reclamation in accordance with Public Resources Code section 2773.1 to ensure that reclamation is performed in accordance with the approved reclamation plan and with this article.

NOTE: Authority cited: Sections 2755, 2773 and 2773.1, Public Resources Code. Reference: Sections 2773 and 2773.1, Public Resources Code.

§ 3703. Performance Standards for Wildlife Habitat.

Wildlife and wildlife habitat shall be protected in accordance with the following standards:

(a) Rare, threatened or endangered species as listed by the California Department of Fish and Game, (California Code of Regulations, Title 14,

sections 670.2 - 670.5) or the U. S. Fish and Wildlife Service, (50 CFR 17.11 and 17.12) or species of special concern as listed by the California Department of Fish and Game in the Special Animals List, Natural Diversity Data Base, and their respective habitat, shall be conserved as prescribed by the federal Endangered Species Act of 1973, 16 U.S.C. section 1531 et. seq., and the California Endangered Species Act, Fish and Game Code section 2050 et seq. If avoidance cannot be achieved through the available alternatives, mitigation shall be proposed in accordance with the provisions of the California Endangered Species Act, Fish and Game Code section 2050 et seq., and the federal Endangered Species Act of 1973, 16 U.S.C. section 1531 et seq.

(b) Wildlife habitat shall be established on disturbed land in a condition at least as good as that which existed before the lands were disturbed by surface mining operations, unless the proposed end use precludes its use as wildlife habitat or the approved reclamation plan establishes a different habitat type than that which existed prior to mining.

(c) Wetland habitat shall be avoided. Any wetland habitat impacted as a consequence of surface mining operations shall be mitigated at a minimum of one to one ratio for wetland habitat acreage and wetland habitat value.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3704. Performance Standards for Backfilling, Regrading, Slope Stability, and Recontouring. Backfilling, regrading, slope stabilization, and recontouring shall conform with the following standards:

(a) Where backfilling is proposed for urban uses (e.g., roads, building sites, or other improvements sensitive to settlement), the fill material shall be compacted in accordance with section 7010, Chapter 70 of the Uniform Building Code, published by the International Conference of Building Officials (1991), the local grading ordinance, or other methods approved by the lead agency as appropriate for the approved end use.

(b) Where backfilling is required for resource conservation purposes (e.g., agriculture, fish and wildlife habitat, and wildland conservation), fill material shall be backfilled to the standards required for the resource conservation use involved.

(c) Piles or dumps of mining waste shall be stockpiled in such a manner as to facilitate phased

reclamation. They shall be segregated from topsoil and topsoil substitutes or growth media salvaged for use in reclamation.

(d) Final reclaimed fill slopes, including permanent piles or dumps of mine waste rock and overburden, shall not exceed 2:1 (horizontal:vertical), except when site-specific geologic and engineering analysis demonstrate that the proposed final slope will have a minimum slope stability factor of safety that is suitable for the proposed end use, and when the proposed final slope can be successfully revegetated.

(e) At closure, all fill slopes, including permanent piles or dumps of mine waste and overburden, shall conform with the surrounding topography and/or approved end use.

(f) Cut slopes, including final highwalls and quarry faces, shall have a minimum slope stability factor of safety that is suitable for the proposed end use and conform with the surrounding topography and/or approved end use.

(g) Permanent placement of piles or dumps of mining waste and overburden shall not occur within wetlands unless mitigation acceptable to the lead agency has been proposed to offset wetland impacts and/or losses.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3705. Performance Standards for Revegetation.

Revegetation shall be part of the approved plan, unless it is not consistent with the approved end use.

(a) A vegetative cover suitable for the proposed end use and capable of self-regeneration without continued dependence on irrigation, soil amendments or fertilizer shall be established on disturbed land unless an artificially maintained landscape is consistent with the approved reclamation plan. Vegetative cover or density, and species-richness shall be, where appropriate, sufficient to stabilize the surface against effects of long-term erosion and shall be similar to naturally occurring habitats in the surrounding area. The vegetative density, cover and species richness of naturally occurring habitats shall be documented in baseline studies carried out prior to the initiation of mining activities. However, for areas that will not be reclaimed to prior conditions, the use of data from reference areas in lieu of baseline site data is permissible.

(b) Test plots conducted simultaneously with mining shall be required to determine the most appropriate planting procedures to be followed to

ensure successful implementation of the proposed revegetation plan. The lead agency may waive the requirement to conduct test plots when the success of the proposed revegetation plan can be documented from experience with similar species and conditions or by relying on competent professional advice based on experience with the species to be planted.

(c) Where surface mining activities result in compaction of the soil, ripping, disking, or other means shall be used in areas to be revegetated to eliminate compaction and to establish a suitable root zone in preparation for planting.

(d) Prior to closure, all access roads, haul roads, and other traffic routes to be reclaimed shall be stripped of any remaining roadbase materials, prepared in accordance with subsection 3705(g), covered with suitable growth media or topsoil, and revegetated. When it is not necessary to remove roadbase materials for revegetative purposes, lead agencies may set a different standard as specified in section 3700(b) of this Article.

(e) Soil analysis shall be required to determine the presence or absence of elements essential for plant growth and to determine those soluble elements that may be toxic to plants, if the soil has been chemically altered or if the growth media consists of other than the native topsoil. If soil analysis suggests that fertility levels or soil constituents are inadequate to successfully implement the revegetative program, fertilizer or other soil amendments may be incorporated into the soil. When native plant materials are used, preference shall be given to slow-release fertilizers, including mineral and organic materials that mimic natural sources, and shall be added in amounts similar to those found in reference soils under natural vegetation of the type being reclaimed.

(f) Temporary access for exploration or other short-term uses on arid lands shall not disrupt the soil surface except where necessary to gain safe access. Barriers shall be installed when necessary to gain safe access. Barriers shall be installed when necessary to prevent unauthorized vehicular traffic from interfering with the reclamation of temporary access routes.

(g) Native plant species shall be used for revegetation, except when introduced species are necessary to meet the end uses specified in the approved reclamation plan. Areas to be developed for industrial, commercial, or residential use shall be revegetated for the interim period, as necessary, to control erosion. In this circumstance, non-native plant species may be used if they are not noxious

weeds and if they are species known not to displace native species in the area.

(h) Planting shall be conducted during the most favorable period of the year for plant establishment.

(i) Soil stabilizing practices shall be used where necessary to control erosion and for successful plant establishment. Irrigation may be used when necessary to establish vegetation.

(j) If irrigation is used, the operator must demonstrate that the vegetation has been self-sustaining without irrigation for a minimum of two years prior to release of the financial assurances by the lead agency, unless an artificially maintained landscape is consistent with the approved end use.

(k) Noxious weeds shall be managed: (1) when they threaten the success of the proposed revegetation; (2) to prevent spreading to nearby areas; and (3) to eliminate fire hazard.

(l) Protection measures, such as fencing of revegetated areas and/or the placement of cages over individual plants, shall be used in areas where grazing, trampling, herbivory, or other causes threaten the success of the proposed revegetation. Fencing shall be maintained until revegetation efforts are successfully completed and the lead agency authorizes removal.

(m) Success of revegetation shall be judged based upon the effectiveness of the vegetation for the approved end use, and by comparing the quantified measures of vegetative cover, density, and species-richness of the reclaimed mined-lands to similar parameters of naturally occurring vegetation in the area. Either baseline data or data from nearby reference areas may be used as the standard for comparison. Quantitative standards for success and the location(s) of the reference area(s) shall be set forth in the approved reclamation plan. Comparisons shall be made until performance standards are met provided that, during the last two years, there has been no human intervention, including, for example, irrigation, fertilization, or weeding. Standards for success shall be based on expected local recovery rates. Valid sampling techniques for measuring success shall be specified in the approved reclamation plan. Sample sizes must be sufficient to produce at least an 80 percent confidence level. There are standard statistical methods in commonly available literature for determining an 80 percent confidence level on a site-by-site basis. Examples of such literature include, but are not limited to, D. Mueller-Dombois and H. Ellenberg, 1974, "Aims and Methods of Vegetation Ecology", John Wiley and Sons, Inc., or C. D. Bonham, 1988, "Measurements for Terrestrial Vegetation", John Wiley and Sons,

Inc., and are available at many university libraries. The texts are also available at some local libraries through the Inter-Library Loan Program.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3706. Performance Standards for Drainage, Diversion Structures, Waterways, and Erosion Control.

(a) Surface mining and reclamation activities shall be conducted to protect on-site and downstream beneficial uses of water in accordance with the Porter-Cologne Water Quality Control Act, Water Code section 13000, et seq., and the Federal Clean Water Act, 33 U.S.C. section 1251, et seq.

(b) The quality of water, recharge potential, and storage capacity of ground water aquifers which are the source of water for domestic, agricultural, or other uses dependent on the water, shall not be diminished, except as allowed in the approved reclamation plan.

(c) Erosion and sedimentation shall be controlled during all phases of construction, operation, reclamation, and closure of a surface mining operation to minimize siltation of lakes and watercourses, as required by the Regional Water Quality Control Board or the State Water Resources Control Board.

(d) Surface runoff and drainage from surface mining activities shall be controlled by berms, silt fences, sediment ponds, revegetation, hay bales, or other erosion control measures, to ensure that surrounding land and water resources are protected from erosion, gullyng, sedimentation and contamination. Erosion control methods shall be designed to handle runoff from not less than the 20 year/1 hour intensity storm event.

(e) Where natural drainages are covered, restricted, rerouted, or otherwise impacted by surface mining activities, mitigating alternatives shall be proposed and specifically approved in the reclamation plan to assure that runoff shall not cause increased erosion or sedimentation.

(f) When stream diversions are required, they shall be constructed in accordance with:

(1) the stream and lake alteration agreement between the operator and the Department of Fish and Game; and

(2) the requirements of the Federal Clean Water Act, Sections 301 (33 U.S.C. 1311) and Section 404 (33 U.S.C. 1344) and/or Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(g) When no longer needed to achieve the purpose for which they were authorized, all temporary stream channel diversions shall be removed and the affected land reclaimed.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3707. Performance Standards for Prime Agricultural Land Reclamation. In addition to the standards for topsoil salvage, maintenance, and redistribution, the following standards shall apply to mining operations on prime agricultural lands where the approved end use is agriculture:

(a) Mining operations which will operate on prime agricultural lands, as defined by the U.S. Soil Conservation Service, shall return all disturbed areas to a fertility level as specified in the approved reclamation plan.

(b) When distinct soil horizons are present, topsoil shall be salvaged and segregated by defined A, B, and C soil horizons. Upon reconstruction of the soil, the sequence of horizons shall have the A atop the B, the B atop the C, and the C atop graded overburden.

(c) Reclamation shall be deemed complete when productive capability of the affected land is equivalent to or exceeds, for two consecutive crop years, that of the premining condition or similar crop production in the area. Productivity rates, based on reference areas described in the approved reclamation plan, shall be specified in the approved reclamation plan.

(d) Use of fertilizers or other soil amendments shall not cause contamination of surface or ground water.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3708. Performance Standards for Other Agricultural Land. The following standards shall apply to agricultural lands, other than prime agricultural lands, when the approved end use is agriculture.

In addition to the standards for topsoil salvage, maintenance, and redistribution, non-prime agricultural lands shall be reclaimed so as to be capable of sustaining economically viable production of crops commonly grown in the surrounding areas.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3709. Performance Standards for Building, Structure, and Equipment Removal.

(a) All equipment, supplies and other materials shall be stored in designated areas (as shown in the approved reclamation plan). All waste shall be disposed of in accordance with state and local health and safety ordinances.

(b) All buildings, structures, and equipment shall be dismantled and removed prior to final mine closure except those buildings, structures, and equipment approved in the reclamation plan as necessary for the end use.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3710. Performance Standards for Stream Protection, Including Surface and Groundwater.

(a) Surface and groundwater shall be protected from siltation and pollutants which may diminish water quality as required by the Federal Clean Water Act, sections 301 et seq. (33 U.S.C. section 1311), 404 et seq. (33 U.S.C. section 1344), the Porter-Cologne Act, section 13000 et seq., County anti-siltation ordinances, the Regional Water Quality Control Board or the State Water Resources Control Board.

(b) In-stream surface mining operations shall be conducted in compliance with Section 1600 et seq. of the California Fish and Game Code, section 404 of the Clean Water Act, and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(c) Extraction of sand and gravel from river channels shall be regulated to control channel degradation in order to prevent undermining of bridge supports, exposure of pipelines or other structures buried within the channel, loss of spawning habitat, lowering of ground water levels, destruction of riparian vegetation, and increased stream bank erosion (exceptions may be specified in the approved reclamation plan). Changes in channel elevations and bank erosion shall be evaluated annually using records of annual extraction quantities and benchmarked annual cross sections and/or sequential aerial photographs to determine appropriate extraction locations and rates.

(d) In accordance with requirements of the California Fish and Game Code section 1600 et seq., in-stream mining activities shall not cause fish to become entrapped in pools or in off-channel pits, nor shall they restrict spawning or migratory activities.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3711. Performance Standards for Topsoil

Salvage, Maintenance, and Redistribution. When the approved reclamation plan calls for revegetation or cultivation of disturbed lands, the following performance standards shall apply to topsoil salvage, maintenance, and redistribution activities:

(a) All salvageable topsoil suitable for revegetation shall be removed as a separate layer from areas to be disturbed by mining operations. Topsoil and vegetation removal shall not precede surface mining activities by more than one year, unless a longer time period is approved by the lead agency.

(b) Topsoil resources shall be mapped prior to stripping and the location of topsoil stockpiles shall be shown on a map in the reclamation plan. If the amount of topsoil needed to cover all surfaces to be revegetated is not available on site, other suitable material capable of sustaining vegetation (such as subsoil) shall be removed as a separate layer for use as a suitable growth media. Topsoil and suitable growth media shall be maintained in separate stockpiles. Test plots may be required to determine the suitability of growth media for revegetation purposes.

(c) Soil salvage operations and phases of reclamation shall be carried out in accordance with a schedule that: (1) is set forth in the approved reclamation plan; (2) minimizes the area disturbed; and (3) is designed to achieve maximum revegetation success allowable under the mining plan.

(d) Topsoil and suitable growth media shall be used to phase reclamation as soon as can be accommodated by the mining schedule presented in the approved reclamation plan following the mining of an area. Topsoil and suitable growth media that cannot be utilized immediately for reclamation shall be stockpiled in an area where it will not be disturbed until needed for reclamation. Topsoil and suitable growth media stockpiles shall be clearly identified to distinguish them from mine waste dumps. Topsoil and suitable growth media stockpiles shall be planted with a vegetative cover or shall be protected by other equally effective measures to prevent water and wind erosion and to discourage weeds. Relocation of topsoil or suitable growth media stockpiles for purposes other than reclamation shall require prior written approval from the lead agency.

(e) Topsoil and suitable growth media shall be redistributed in a manner that results in a stable, uniform thickness consistent with the approved end use, site configuration, and drainage patterns.

NOTE: Authority cited: Sections 2755, 2756 and

2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3712. Performance Standards for Tailing and Mine Waste Management.

State Water Resources Control Board mine waste disposal regulations in Article 7 of Chapter 15 of Title 23, California Code of Regulations, shall govern mine waste and tailings, and mine waste disposal units shall be reclaimed in conformance with this article.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

§ 3713. Performance Standards for Closure of Surface Openings.

(a) Except those used solely for blasting or those that will be mined through within one year, all drill holes, water wells, and monitoring wells shall be completed or abandoned in accordance with each of the following:

(1) Water Code sections 13700, et seq. and 13800, et seq.;

(2) the applicable local ordinance adopted pursuant to Water Code section 13803;

(3) the applicable Department of Water Resources report issued pursuant to Water Code section 13800; and

(4) Subdivisions (1) and (2) of section 2511(g) of Chapter 15 of Title 23 regarding discharge of waste to land.

(b) Prior to closure, all portals, shafts, tunnels, or other surface openings to underground workings shall be gated or otherwise protected from public entry in order to eliminate any threat to public safety and to preserve access for wildlife habitat.

NOTE: Authority cited: Sections 2755, 2756 and 2773, Public Resources Code. Reference: Section 2773, Public Resources Code.

Article 11. Financial Assurance Mechanisms

§ 3800. Purpose. It is the purpose of this article to specify additional financial assurance mechanisms to assure reclamation pursuant to Public Resources Code Section 2710 et seq. (Surface Mining and Reclamation Act, as amended).

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3801. Authority. Review, approval, adjustment, enforcement, notification, forfeiture and all other responsibilities of the lead agency, operator and Department of Conservation with

respect to financial assurances shall be conducted as prescribed in Public Resources Code Section 2710 et seq. unless expressly outlined in this article.

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3802. Definitions. The following definitions shall govern the interpretation of this article:

(a) "Budget Set Aside" means a financial assurance mechanism, meeting the requirements of Section 3806.2 of this article, by which a government entity proposes to make specific identified monies within the entity's budget available to perform reclamation pursuant to the approved reclamation plan.

(b) "Financial Assurance Amount" means that amount of money necessary to conduct and complete reclamation on the mined lands in accordance with the approved reclamation plan, plus a reasonable estimate of the administrative costs and expenses which would be incurred by the lead agency or the Department of Conservation, the total of which shall be calculated in accordance with section 3804, and shall constitute an obligation to pay by the operator.

(c) "Financial Assurance" means an instrument, fund or other form of Financial Assurance as provided in Section 2773.1(a) and (e) of the Public Resources Code and this Article.

(d) "Pledge of Revenue" means a financial assurance mechanism meeting the requirements of Section 3806.1, of this Article, by which a governmental entity proposes to make specific, identified future revenue available to perform reclamation pursuant to the approved reclamation plan.

NOTE: Authority cited: Section 2755, Public Resources Code. Reference: Sections 2726-2734, Public Resources Code.

§ 3803. Financial Assurance Mechanisms. As outlined by this article, financial assurances may take the form of any one or a combination of the following, which the lead agency, upon review by the Department of Conservation, reasonably determines are adequate to perform reclamation in accordance with the approved reclamation plan.

(a) For non-governmental entity operators:

- (1) Surety bonds;
- (2) Irrevocable letters of credit; and
- (3) Trust funds;

(b) For governmental entity operators:

- (1) Surety bonds;
- (2) Irrevocable letters of credit;
- (3) Trust funds;

- (4) Pledges of Revenue; or
- (5) Budget Set Aside.

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3804. Calculation of Financial Assurance Amount.

(a) The Financial Assurance Amount shall be calculated as prescribed in Public Resources Code Section 2773.1 and based on:

(1) an analysis of the physical activities and materials necessary to implement the approved reclamation plan;

(2) the lead agency's unit costs, or costs for third party contracting, for each of these activities, if applicable;

(3) the number of units of each of these activities, if applicable;

(4) a contingency amount not to exceed 10% of the reclamation costs.

(b) The calculated amount should not include the cost of completing mining of the site.

(c) In order for the lead agency or the Department of Conservation to determine what annual adjustments, if any, are appropriate to the Financial Assurance Amount, the operator shall annually submit to the lead agency a revision of the written calculation required under Section 3804(a).

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3805. Review by the Department of Conservation.

Pursuant to Section 2774(c), Public Resources Code, the lead agency shall submit a copy of the proposed Financial Assurance and the Calculation of Financial Assurance Amount submitted by the operator pursuant to Section 3804 to the Director of the Department of Conservation for review. With this submittal the lead agency shall include the information and documentation relied upon in calculating the amount of the proposed Financial Assurance and indicate to the Director that the Financial Assurance Amount is adequate for the lead agency or the Department of Conservation to conduct and complete reclamation on the mined lands in accordance with the approved reclamation plan. The Director shall have 45 days, upon receipt, to prepare written comments regarding the proposed Financial Assurance, if he/she so chooses.

NOTE: Authority cited: Section 2774, Public Resources Code. Reference: Section 2774(c), (d),

Public Resources Code.

§ 3806. Surface mining operations owned and operated by state or local governmental entities.

In addition to the mechanisms provided in Public Resources Section 2773.1 and this article, a financial assurance mechanism for reclamation for a surface mining operation owned and operated by the state, county, city, district, or other political subdivision may be in the form of a:

- (a) Pledge of Revenue; or
- (b) Budget Set Aside.

These financial assurance mechanisms may only be used by the state, county, city, district, or other political subdivision.

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3806.1. Pledge of Revenue.

(a) A pledge of revenue shall consist of a resolution or other appropriate document from the governing body of the state, county, city, district, or other political subdivision responsible for reclamation of the mined lands pursuant to the approved reclamation plans. The resolution or document shall remain effective continuously throughout the period in which the pledge of revenue is used to satisfy the requirements of Section 2773.1, Public Resources Code.

(b) The pledge of revenue shall contain the following items:

(1) The resolution or document establishing the pledge of revenue;

(2) The types and sources of pledged revenue;

(3) The period of time that each source of revenue is pledged to be available;

(4) The calculation amount of the financial assurance prepared pursuant to Section 3804; and

(5) The authorization for the lead agency or the Department of Conservation to use the proceeds of the pledge to conduct and complete reclamation if the lead agency or the Department of Conservation determines that the operator is incapable of performing the reclamation covered by the pledge pursuant to Section 2773.1(b).

(c) The state, county, city, district, or other political subdivision may pledge any following types of revenue that it controls and that will be available in a timely manner to conduct and complete reclamation:

(1) Fees, rents, or other charges;

(2) Tax revenues within statutory limitations; and/or

(3) Other guaranteed revenues that are acceptable to the lead agency and the Board.

(d) If the governmental entity ceases at any time to retain control of its ability to allocate any pledged revenue to conduct and complete reclamation, the entity shall notify the lead agency and the Department of Conservation and shall obtain alternative coverage within 60 days after control lapses.

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

§ 3806.2. Budget Set Aside.

(a) A Budget Set Aside shall consist of a specific fund or line item set aside by the state, county, city, district or other political subdivision responsible for reclamation of the mined lands. The Budget Set Aside shall remain effective continuously throughout the period in which the Budget Set Aside is used to satisfy the requirements of Section 2773.1, Public Resources Code.

(b) The set aside shall contain the following items:

(1) A resolution or other appropriate document establishing the set aside or line item including proof of approval by the governing body or appropriate official of the state, county, city, district or other political subdivision;

(2) The types and sources of specific funds;

(3) The period of time that each funding source is to be available;

(4) The calculation amount of the financial assurance prepared pursuant to Section 3804; and

(5) The authorization for the lead agency or the Department of Conservation to use the funds to conduct and complete reclamation if the lead agency or the Department of Conservation determines that the operator is incapable of performing the reclamation covered by the set aside pursuant to Section 2773.1(b).

NOTE: Authority cited: Section 2773.1, Public Resources Code. Reference: Section 2773.1(e), Public Resources Code.

**POTENTIAL PERMITS, APPROVALS AND PROCESSES FOR
MINING PROJECTS IN CALIFORNIA**

Agency/Department	Permit/Approval/Process	Required For
FEDERAL AGENCIES		
Federal Land Managers (e.g., BLM, U.S. Forest Service)	Plan of Operations, Reclamation Plan. (43 CFR 3802 <i>et seq.</i> ; 36 CFR 228 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Surface disturbing activities.
	Environmental Review. (NEPA, 42 USC 4321 <i>et seq.</i>) Cultural/paleontological resource permit. (16 USC 470). Archeological Resources Protection Act Survey. (16 USC 469 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Evaluation of environmental impacts. ▶ Survey/excavation activities. ▶ Avoidance of archeological resources.
Bureau of Land Management	Right-of-way grant. (FLPMA, 43 USC 1701 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Easements on BLM-managed lands.
	Temporary use permit. (43 USC 1701 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Activities for less than 3 years.
Forest Service	Special use permit, easement, lease. (43 USC 1701 <i>et seq.</i> ; 16 USC 522 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Easements on Forest Service lands. ▶ Commercial use of existing road.
Army Corps of Engineers	Individual/Nationwide Section 404 Discharge Permit. (Clean Water Act, 33 USC 1341)	<ul style="list-style-type: none"> ▶ Discharge of dredge/fill material into "waters of the United States," including wetlands.
	Section 10 Permit. (33 USC 401, 403)	<ul style="list-style-type: none"> ▶ Activities, including placement of structures, affecting navigable waters.
Fish and Wildlife Service	Biological Assessment, Section 7 Consultation, Biological Opinion. (Endangered Species Act, 16 USC 1531-1544)	<ul style="list-style-type: none"> ▶ Avoidance of federally-listed endangered/threatened species.
	Endangered Species Act Take Permit. (Section 10)	<ul style="list-style-type: none"> ▶ Incidental take of federally-listed species, (if anticipated).
Environmental Protection Agency (EPA)	Prevention of Significant Deterioration (PSD) Permit; New Source Performance Standards Notifications. (Clean Air Act, 42 USC 7401-7642)	<ul style="list-style-type: none"> ▶ Potential air impacts from certain size sources in clean air areas. ▶ Installation and operation of certain mining facilities.
	Chemical Release Notifications and Chemicals Handled Inventory. (42 USC 11001 <i>et seq.</i>)	<ul style="list-style-type: none"> ▶ Response actions, if emergency response is necessary.
Federal Highway Administration	Encroachment permits. (23 USC 109, 116, 123)	<ul style="list-style-type: none"> ▶ Encroachments on federal highway rights-of-way.
Bureau of Alcohol, Tobacco and Firearms	Purchase, Storage, or Transportation of Explosives Permit. (27 CFR 55)	<ul style="list-style-type: none"> ▶ Purchasing explosives from an out of state source, transporting explosives across state line, storing explosives.
Mine Safety and Health Administration (30 USC 801 <i>et seq.</i> ; 30 CFR 50.1 <i>et seq.</i>)	Standards for open pit and underground mines. (30 CFR 56, 57)	<ul style="list-style-type: none"> ▶ Worker health and safety.
	Legal Identity Report For Surface Operations.	<ul style="list-style-type: none"> ▶ Identifying type of operation, location and ownership.
	Notice of Commencement of Operations.	<ul style="list-style-type: none"> ▶ Tracking mining activities.
	Emergency Fire, Evacuation, and Rescue Plan.	<ul style="list-style-type: none"> ▶ Potential emergency situations.
	Record of Inspection of Self-Propelled Equipment.	<ul style="list-style-type: none"> ▶ Equipment use.
	Record of Testing the Resistance of Electrical Ground System.	<ul style="list-style-type: none"> ▶ Ensuring safe installation, repair, or modification of electrical ground systems.
	Miner Training Program.	<ul style="list-style-type: none"> ▶ Educating workers.
	MSHA Identification Number.	<ul style="list-style-type: none"> ▶ Tracking mine sites.

Prepared by California Mining Association. CMA is indebted to John Keene of Resource Management International for his volunteer work on this table. Items covered in this table relate to land use, environmental protection and worker safety. Actual requirements will vary depending on project operations and site specific conditions. This table is for informational purposes only, and should not be relied upon for project permitting and operations.

Agency/Department	Permit/Approval/Process	Required For
STATE AGENCIES		
State Water Resources Control Board Regional Water Quality Control Boards	General Construction Activity Stormwater Permit. Notice of Intent. (40 CFR Part 122)	▶ Stormwater discharges associated with construction activity.
	General Industrial Activity Stormwater Permit. Notice of Intent. (40 CFR Part 122)	▶ Stormwater discharges associated with industrial activity, unless covered by individual NPDES Permit.
	National Pollutant Discharge Elimination System Permit. (33 USC 1251 <i>et seq.</i>)	▶ Discharges into surface waters of California.
	Waste Discharge Requirements. (Water Code 13000 <i>et seq.</i>)	▶ Discharge of waste that might affect groundwater quality.
	Spill Prevention Control and Countermeasures Plan. (Health and Safety Code 25270 <i>et seq.</i>; 40 CFR Part 112.)	▶ Underground storage of petroleum of 42,000+ gallons. Above ground storage with 10,000+ gallons; or any spill affecting surface waters, single tank of 600 gallons or 1320 total.
	Water Quality Certification (33 USC 1251 <i>et seq.</i>), if project requires Army Corps of Engineers 404 permit.	▶ Discharge into "waters of the U.S.," including wetlands
State Water Resources Control Board Division of Water Rights	Permit to Appropriate Water. (Water Code 1200 <i>et seq.</i>)	▶ Diverting water.
	Statement of Water Diversion and Use.	▶ Diverting water under a riparian claim or claim of appropriative right initiated prior to December 14, 1914.
Department of Water Resources	Approval of Plans and Specifications to Construct or Enlarge a Dam or Reservoir and Certificate of Approval to Store Water. (Water Code 6000 <i>et seq.</i>)	▶ Constructing or enlargement of dam or reservoir of certain size (e.g., tailings ponds).
Department of Fish and Game	Lake/Streambed Alteration Agreement. (Fish and Game Code 1603)	▶ Change in natural state of river, stream, lake which affects fish or wildlife resource.
	California Endangered Species Act Section 2081 Permit. (Fish and Game Code 2081)	▶ Incidental take of state-listed threatened/endangered species or habitat (if anticipated).
State Office of Historic Preservation	Section 106, National Historic Preservation Act. (16 USC 470; 36 CFR 62; 36 CFR 65).	▶ Avoidance of historic, architectural, archaeological, or cultural characteristics of properties that meet National Register Criteria
State Lands Commission	Prospecting Permit. (Public Resources Code (PRC) 6890 <i>et seq.</i>)	▶ Exploring for minerals on state lands.
	Mineral leases and easements. (PRC 6801 <i>et seq.</i>)	▶ Use of State owned lands including rights-of-way.
California Coastal Commission	Coastal Development Permit. (PRC 30000 <i>et seq.</i>)	▶ Development within the Coastal Zone.
Department of Transportation (CALTRANS)	Encroachment permit.	▶ Encroachments on state highway rights-of-way.
Division of Occupational Safety and Health (Cal-OSHA), Mining & Tunneling Unit	Underground Mine Classifications	▶ Underground mines prior to commencing operations
	Notification and Prejob Safety Meeting.	▶ Underground mining operations.
	Underground Diesel Permit.	▶ Underground use of diesel engines.

Prepared by California Mining Association. CMA is indebted to John Keene of Resource Management International for his volunteer work on this table. Items covered in this table relate to land use, environmental protection and worker safety. Actual requirements will vary depending on project operations and site specific conditions. This table is for informational purposes only, and should not be relied upon for project permitting and operations.

Agency/Department	Permit/Approval/Process	Required For
Division of Occupational Safety and Health (Cal-OSHA), Mining & Tunneling Unit (continued)	Certifications and Licenses: Cranes Gas Tester Licensed Blaster	<ul style="list-style-type: none"> ▶ Cranes used in lifting service over three tons rated capacity inspected annually. ▶ Detecting toxic and/or combustible gases in underground mines. ▶ Detonating or supervising use of explosive or blasting.
	Permission, Acceptance and Requirements: Belt Conveyor/Ventilation Fan Gassy/Extrahazardous Installations Hoists/Shaft Conveyances	<ul style="list-style-type: none"> ▶ Underground mines. ▶ Gassy or Extrahazardous mine/tunnel. ▶ First Class mine hoists and shaft conveyances.
California Highway Patrol	Hazardous Material Transportation License.	▶ Transporting explosives.
LOCAL AGENCIES		
County/City (Planning Departments/Commissions)	Use Permit/Mining Permit. (SMARA, PRC 2710 <i>et seq.</i>); county/city land use ordinances.	▶ Avoidance of environmental impacts.
	Reclamation Plan and Financial Assurance. (PRC Section 2710 <i>et seq.</i>) Note: Local agency must consult with the State Department of Conservation.	▶ Ensuring sites are returned to beneficial end uses.
	General Plan Amendment.	▶ Activities inconsistent with general plan.
	Zone change.	▶ Activities inconsistent with zone class.
	Environmental Review (CEQA, PRC 21000-21177).	▶ Evaluating environmental impacts.
	Storage tanks regulation.	▶ Storage of regulated materials.
County/City Public Works Departments	Grading permit.	▶ Excavation and fill activities.
	Road encroachment.	▶ Activities within county rights-of-way.
	Encroachment permit.	▶ Crossing of local flood control facilities or rights-of-way.
	Transportation permit.	▶ Transporting of overloads on County road rights-of-way.
	Building permit.	▶ Constructing structures.
County/City Environmental Health Services	Hazardous Materials Business Plan. (Health and Safety Code Chapter 6.95) Hazardous Materials Inventory. (Health and Safety Code Chapter 6.95)	<ul style="list-style-type: none"> ▶ Hazardous materials over Federal Threshold Planning quantities. ▶ Hazardous materials over threshold quantities.
	Risk Management Prevention Program. (Health and Safety Code Chapter 6.95) Acutely Hazardous Materials Registration. (Health and Safety Code Chapter 6.95)	<ul style="list-style-type: none"> ▶ Extremely Hazardous Materials over threshold quantities. ▶ Acutely hazardous materials over threshold quantities.
	Small water system Domestic Water Permit	▶ Avoiding impact to domestic water supplies.
County Fire Warden	Fire Protection Plan.	▶ Ensuring adequate fire water storage, mains and hydrants and access to accommodate fire fighting equipment.
County or Regional Air Pollution Control Districts/Air Quality Management Districts	Authority to Construct. (Local district rules, per Health and Safety Code 42300 <i>et seq.</i>)	▶ Emissions from a stationary source.
	Permit to Operate. (Local district rules)	▶ Equipment emitting pollutants from a stationary source.

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*F*or more than 100 years, sand and gravel mining operations have provided building materials from along the San Joaquin River to accommodate the region's growing population. Members of the Fresno Sand & Gravel Producers Chapter of the Central Valley Rock, Sand & Gravel Assn. and San Joaquin Sand & Gravel have demonstrated that sand and gravel mining can both protect and create valuable wetlands, wildlife habitat, and park land for future generations to enjoy.

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Design: Fitzgerald and Company - Sacramento, CA

Photos: John Buada - Fresno, CA



CENTRAL VALLEY
ROCK, SAND & GRAVEL ASSOCIATION



Wetlands
in *Reclamation*

CALIFORNIA'S CENTRAL VALLEY

A Reality Created by Aggregate Producers

Wetlands have been called "the richest of all living environments." They play a vital role in wildlife habitat and in water resource management. Traditionally, development of the land has displaced natural wetlands. Now the sand and gravel industry is creating wetlands, reclaiming sites of former mining operations along the San Joaquin River. Hundreds of acres of reclaimed wetlands have been established in the Fresno area, both public lands and private property.



Milburn Unit,
San Joaquin River Ecological Reserve

There is a satisfying symmetry between sand and gravel mining and wetlands reclamation, a balance between the development of one resource (construction aggregates) and the creation of a new resource (wetlands). In the process of mining, construction and road building materials are generated to fulfill the needs of daily life. Cities rise and roads connect them. In the transition from mining to reclamation, wildlife flourishes in the reclaimed wetlands and riparian habitats created by sand and gravel mining. Since 1988, the State Wildlife Conservation Board has acquired over 830 acres to form the San Joaquin River Ecological Reserve all former sand and gravel sites.

As mining is completed in one area, reclamation starts immediately, with the creation of sloped and meandering shorelines and islands. The original topsoil, rich with seeds, is then replaced on the newly contoured land.

CalMat of Central California,
Rank Island



Calaveras Materials, Inc.,
dba Stewart & Nuss, Diener Site

Only open land is mined, the natural woodland and riparian zones are preserved. As mining is completed, the land is reclaimed into wetlands habitat with meandering shorelines. These wetlands attract myriad wildlife and present appealing vistas for the elegant homes overlooking this site from the Fresno bluffs.

Reclamation is designed to include the habitat preferred by waterfowl, as identified in a recent wildlife study of local gravel ponds. Islands are created to provide nesting and roosting habitat where birds feel secure from land predators.

Calaveras Materials, Inc.,
dba Stewart & Nuss, Diener Site

Central Valley Rock, Sand
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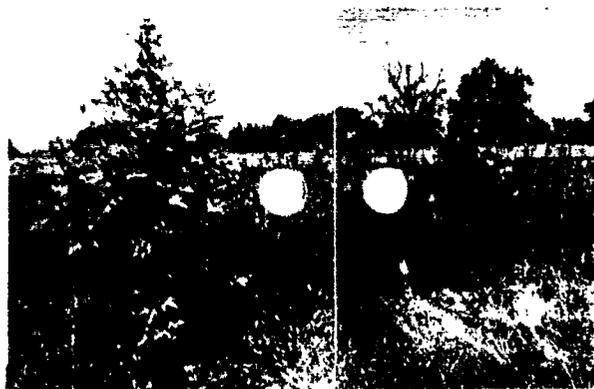


CalMat of Central California, Rank Island

Rank Island, home to one of the area's largest Great Blue Heron and Great Egret rookeries and a resident Mule deer herd, was purchased by the State Wildlife Conservation Board in 1994 as one of the key wildlife sanctuaries in the region. Reclaimed gravel ponds have become an integral part of the new San Joaquin River Parkway. Each year, the island's ponds are important stopping-over places for multitudes of wintering waterfowl: Canada Geese, Wood Ducks, American Widgeon, Ringed-neck Ducks, Bufflehead, Cinnamon Teal, and many other migratory fowl.

Even on sites that were mined before reclamation plans were required, abundant natural vegetation regrowth and wetlands have attracted a profusion of wildlife. For years now, resident and migratory waterfowl, song birds, raptors, a local mule deer herd, beaver and many other species have found haven at such sites.

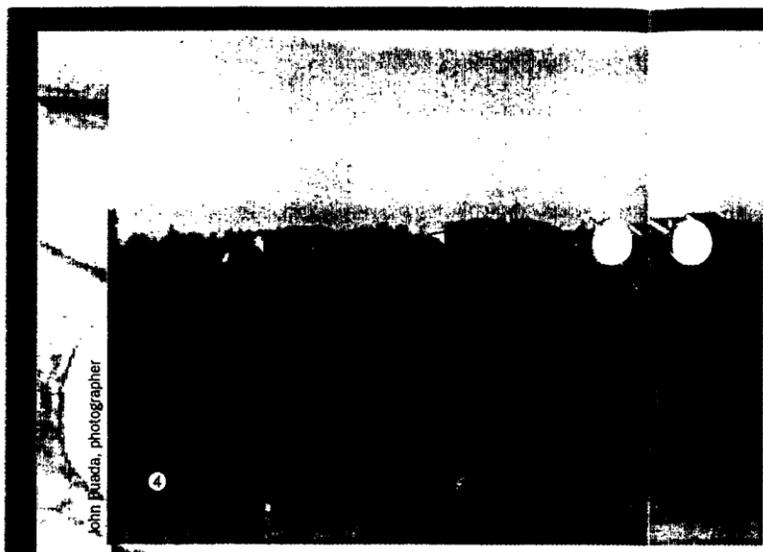
RMC Lonestar



CalMat of Central California, Rank Island

The natural regrowth of vegetation is supplemented by manual planting to increase diversity and density of native species.

C-116074



John Pineda, photographer

**Fisheries and wildlife habitat, Madera County
Calaveras Materials Inc. dba Stewart & Nuss**

In an area that had been mined since the 1970s, Stewart and Nuss created a private wildlife habitat with three lakes, known as the Moen Fishing Lakes. Reclamation began in the early 1980s, when the first lake was stocked with fish. Now the three reclaimed lakes are popular with weekend anglers who try their luck at catching native and stocked fish: blue gill, catfish, and bass.



**Wetland habitat, Yolo County
Syar Industries**

Syar Industries has created wetland and riparian habitats in rural Yolo County, on land washed out by devastating floods in 1955/56. After mining during the 1980s, Syar reclaimed the land as a settling basin, to trap fine sediment carried by wash waters from the aggregate plant and storm water runoff. These ponds form wetland and riparian habitats that attract deer, foxes, raccoons, beavers, rabbits, quail, pheasants, and other birds and wildlife.

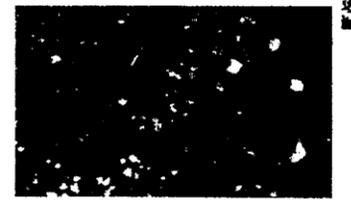


**CENTRAL VALLEY
ROCK, SAND & GRAVEL ASSOCIATION**

During the past several decades, California's mining industry has created thousands of acres of self-sustaining natural habitats. Throughout the state, plants, fish, fowl, and other wildlife thrive on former mining lands. The mining industry has shown us the possibilities for human communities to recreate the natural harmony of self-sustaining plant and animal communities. We all benefit from mining reclamation. Restoring mined lands to productive post-mining uses makes sense for both business and the environment.

Members of the Central Valley Rock, Sand and Gravel Association are committed to creating successful mining reclamation projects. To learn more about such projects or to find out about the role of aggregates in society, contact:

Central Valley Rock, Sand & Gravel Association
P.O. Box 1464
Los Banos, CA 93635
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*Reclamation
for Habitat*

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Design: Fitzgerald and Company - Sacramento, CA

C-116074

Reality Created by Aggregate Producers in California

California, an innovator in so many endeavors, has a longstanding policy of working to expand our diminishing natural habitats. California's mining industry has created thousands of acres of new, self-sustaining habitats around the state. Reclaimed mining land can make ideal habitats for plants, fish, fowl, and other wildlife.

Oddly enough, wildlife biologists were among the first in the U.S. to recognize the "tremendous potential" gravel pits created for reuse as natural habitats. A 1986 article in *Audubon* urged bird lovers, regulators, and the general public to understand that mined land can be used to replace valuable lost habitat. This idea is not new. In Great Britain, wildlife habitats have long replaced mining activities in the sequence of land uses.

Throughout California, mining reclamation projects demonstrate the compatibility between mining and natural habitats. The diversity of these projects provides particularly strong evidence of the ongoing usefulness of mined land.



Desert habitat, San Bernardino County
CalMat of San Bernardino

In San Bernardino County, CalMat has reclaimed 80 acres within Lytle Creek and created a self-sustaining Alluvial Fan Sage Scrub community on a site that has been mined since the 1920s. To preserve local genetics, seeds and cuttings from the site were used to revegetate the area. Reestablishing the Alluvial Fan Sage Scrub community in this way actually mimics natural succession following flood scour.

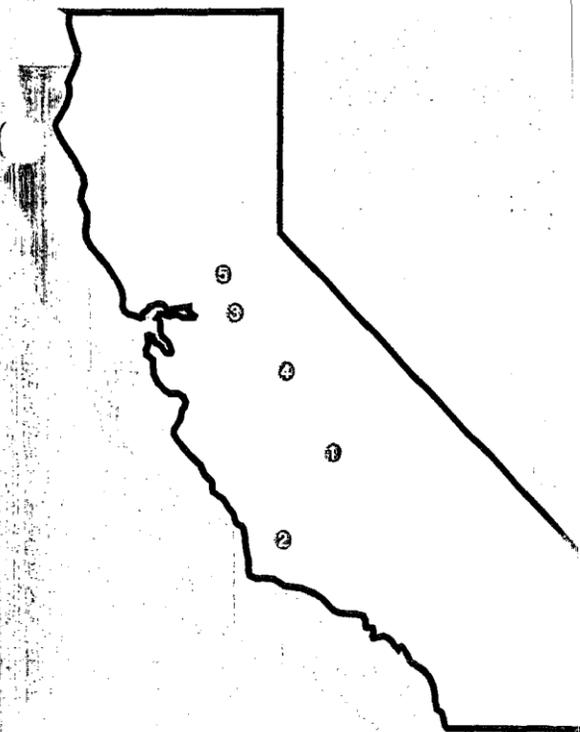
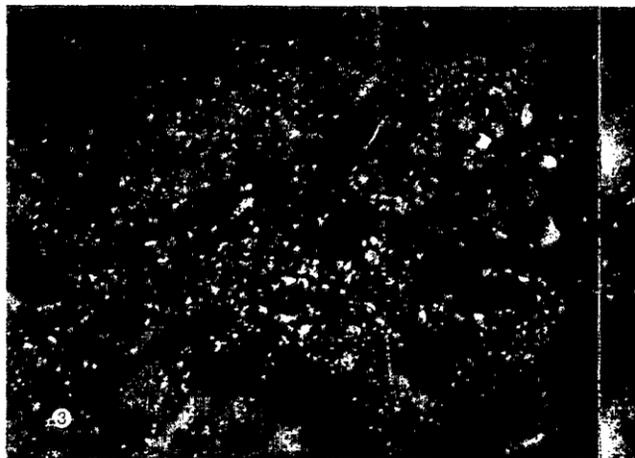
Instream habitat, Santa Barbara County
Coast Rock Products, Inc.

Coast Rock Products illustrates the potential for natural reclamation in a portion of the Sisquoc Riverbed, a mining site for 25 years. The company seeks to promote diversity in both topography and vegetation in a self-sustaining habitat. Willow riparian habitat has expanded into the river channel and naturally revegetated slopes and ponds provide homes for a variety of species.



Salmon spawning habitat, Stanislaus County
Santa Fe Aggregates, Inc.
(formerly M.J. Ruddy & Son, Inc.)

In a unique partnership with the California Department of Fish and Game, Santa Fe Aggregates manufactured special gravels for salmon spawning. To restore lost salmon spawning habitat, the company reconstructed the existing river channel and reestablished riparian habitat using the special gravels. Today red salmon brighten the water as they navigate this reach of the Tuolumne River.



Successful reclamation projects for habitat are located throughout California.

- 1 **Desert Habitat**
CalMat of San Bernardino
San Bernardino County
- 2 **Instream Habitat**
Coast Rock Products, Inc.
Santa Barbara County
- 3 **Salmon Spawning Habitat**
Santa Fe Aggregates, Inc.
Stanislaus County
- 4 **Fisheries and Wildlife Habitat**
Calaveras Materials, Inc. dba Stewart & Nuss
Madera County
- 5 **Wetland Habitat**
Syar Industries, Yolo County



Successful agricultural reclamation projects are located throughout California.

- ① Teichert Aggregates, Aspen Properties
Sacramento County
- ② Syar Industries
Sonoma County
- ③ Solano Concrete
Yolo County
- ④ Lemoncove Granite Pit
Tulare County
- ⑤ George Reed, Inc., dba Munn & Perkins
San Joaquin County
- ⑥ CalMat of Central California
River Rock property
Fresno County
- ⑦ CalMat, Los Angeles, Noble property
Ventura County



John Buada, photographer

CalMat of Central California
River Rock property

In Fresno County, CalMat has reclaimed 50 acres of a 350 acre sand and gravel site. Since 1991, a local farmer has planted corn on this reclaimed parcel. During the winter, migrating Canada geese feed in the corn stubble and rest in nearby wetlands habitat, also on former mining land. Company offices (left) and mining operations (right) are visible behind the cornfield.

CalMat, Los Angeles
Noble property

In CalMat's award-winning reclamation project, a local farmer leased 140 acres in Ventura County and grew strawberries on this former mining land. Situated about 25 feet below grade, these strawberry fields are protected from soil erosion and wind damage by the surrounding slopes.



D

uring the last 20 years, successful agricultural reclamation projects around the state have demonstrated a new relationship between mining and the land.

Members of the Central Valley Rock, Sand & Gravel Association have made an ongoing commitment to reclaim mining land. Completed reclamation projects show that former mining lands can be efficiently adapted to other productive uses, including agriculture, to serve the changing needs of future generations.

To learn more about the role of aggregate materials in society, contact:

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CENTRAL VALLEY
ROCK, SAND & GRAVEL ASSOCIATION



Reclaiming
for Mining Sites
AGRICULTURAL LAND USE

*Reality
Created by
Aggregate
Producers in
California*

Some people are surprised to learn how many successful mining reclamation projects have been completed in California during the past 25 years. The mining industry has shown us that once the mineral resources have been extracted from a site, the land can be transformed into productive alternative uses.

Agricultural reclamation makes sense in California, a leader in both mining aggregates and agricultural production. A wide variety of crops have been established on former mining lands: tomatoes, strawberries, corn, alfalfa, walnuts, almonds, grapes, wheat, and more.



Teichert Aggregates, Aspen Properties

Dairy farmers lease over 300 acres of reclaimed mining land from Teichert Aggregates, to raise alfalfa and corn for cattle feed. Growing their own feed reduces transportation and operating costs for the dairy. Ponds created on the property provide both irrigation and containment for runoff. Mining continues on property adjacent to these fields, further evidence that mining and agriculture can coexist.



Syar Industries

Syar Industries, one of the largest aggregate producers in Sonoma County, is also one of the largest grape producers in the Middle Reach of the Russian River. In 1975, Syar reclaimed 12 acres for vineyards. Six acres were planted in 1980, and 10 more acres are ready for planting in 1995. Grape yields on the reclaimed land equal yields a other vineyards in the area.



Solano Concrete

Mining sometimes actually improves agricultural land. In Yolo County, mining removed gravel streaks that impeded water delivery and fertilizer distribution through the soil. Production of wheat and other crops planted on the reclaimed land now equals or exceeds yields on unmined fields nearby. Intensive monitoring has shown no adverse affect from mining on groundwater levels or quality.

Agriculture is but one of many productive uses for former mining land. Successful reclamation projects have resulted in the creation of wetlands, wildlife habitat, commercial and industrial projects, recreational areas, and a variety of public improvements.



George Reed, Inc.
dba Munn & Perkins

Between 1973 and 1988, George Reed, Inc. has reclaimed nearly 80 acres in San Joaquin County, where mining operations began in 1956. Reclamation of the first 6.6 acre parcel was completed in 1973, when walnut trees were planted. Since then, additional parcels have been reclaimed for orchards of walnut and almond trees.



George Reed, Inc., Photographer

Lemoncove Granite Pit

In Tulare County, 20 acres of land at the Lemoncove Granite Pit is being readied for reclamation to a citrus orchard. Three acres of adjoining land has already been reclaimed, and the trees have begun producing oranges. At Lemoncove, as at other sites, mining and reclamation proceed in tandem.