RECLAMATION PLAN FOR

_____(name of Mine)

MINING OPERATION

Note: This prototype, developed by the State Mining and Geology Board (Board), is intended to assist smaller-scale mine operators in environmentally non-sensitive areas to conform to the requirements of the Surface Mining and Reclamation Act (SMARA) and related Board regulations. It serves as an example of an acceptable reclamation plan format. The prototype is not intended to place any additional requirements on mining operators, nor to limit lead agency control in implementing SMARA's reclamation requirements.

Please print or type, attach additional sheets if necessary

CALIFORNIA MINE ID# [if one has been assigned]:

- -

GENERAL OWNERSHIP/OPERATION INFORMATION:

MINE NAME:
LOCATION OF MINE [include address]: ATTACH A MAP THAT IDENTIFIES HOW TO ACCESS THE MINE SITE FROM THE NEAREST HIGHWAY. ☐ **CHECK BOX IF LOCATION MAP IS ATTACHED**
MINE OPERATOR (S):
TELEPHONE NUMBER (S):
MAILING ADDRESS:
MINE OPERATOR'S DESIGNATED AGENT [if applicable]:
TELEPHONE NUMBER:
MAILING ADDRESS:

GENERAL MINING OPERATION INFORMATION

MINED MINERAL COMMODITY (IES):
ESTIMATED ANNUAL PRODUCTION:
ESTIMATED TOTAL PRODUCTION:
TOTAL NUMBER OF ACRES TO BE DISTURBED BY THE SURFACE MINING OPERATION:
TOTAL NUMBER OF ACRES TO BE RECLAIMED:
MAXIMUM ANTICIPATED DEPTH OF MINING: ____ FEET; _____ELEVATION (mean sea level)
START UP DATE [indicate whether actual or proposed]:

SITE MAP: ATTACH A TOPOGRAPHIC MAP OF LANDS THAT WILL BE AFFECTED BY MINING OPERATIONS. THE MAP SCALE SHOULD BE 1"=100' TO 1"=500' SO THAT THE FOLLOWING MAY BE IDENTIFIED EASILY:

EXISTING SITE CONDITIONS: PROJECT BOUNDARIES, EXISTING SURFACE TOPOGRAPHY *WITH CROSS SECTION*, RAILROADS, UTILITIES, ROADS, DRILL HOLES, WATER WELLS, MONITORING WELLS, STREAMS, VEGETATION, AND ANY OTHER SURFACE FEATURES RELATED TO THE MINING OPERATION OR RECLAMATION;

MINING OPERATION FEATURES:PROPOSED ACCESS ROADS, SETBACKS, LOCATION AND VOLUME OF TOPSOIL STOCKPILES, CREST, TOE, AND VOLUME OF OVERBURDEN STOCKPILES, CREST AND TOE OF PIT(S), LOCATION OF PROCESSING FACILITIES, EROSION CONTROL FACILITIES, SETTLING PONDS, TEMPORARY STREAM DIVERSIONS, AND EQUIPMENT STORAGE AREAS;

FINAL SITE CONFIGURATION: RECLAIMED DRAINAGE AND SURFACE CONFIGURATION, EROSION CONTROL FACILITIES, AND PROPOSED FINAL TOPOGRAPHY *WITH CROSS SECTION.*

☐ **CHECK BOX IF SITE MAP IS ATTACHED**

(1) DESCRIBE THE ENVIRONMENTAL SETTING OF THE MINE SITE, INCLUDING THE FOLLOWING: PROVIDE A GENERAL DESCRIPTION OF VEGETATION AND A LIST OF PLANTS CURRENTLY ON SITE THAT MAY BE SUITABLE FOR RECLAMATION:

(2) ADDRESS THE PRESENCE/ABSENCE OF SENSITIVE SPECIES, SENSITIVE HABITATS [WETLANDS, VERNAL POOLS, ETC.]. ADDRESS SPECIES, HABITATS THAT ARE CONSIDERED SENSITIVE WITHIN THE LEAD AGENCY'S JURISDICTION [eg. Oak, Woodland, Bishop pine forest].

[GENERAL MINING OPERATION INFORMATION con't]

(1) DESCRIBE THE GEOLOGY OF THE AREA SURROUNDING THE MINE SITE:

(2) DESCRIBE THE GEOLOGY OF THE AREA TO BE MINED:

DESCRIBE THE TYPE OF MINING TO BE EMPLOYED [eg. quarry/ truck and shovel operation]:

GENERAL LEAD AGENCY INFORMATION

LEAD AGENCY:
STAFF CONTACT:
TELEPHONE NUMBER:
MAILING ADDRESS:
USE PERMIT NUMBER [if applicable]:
DATE PERMIT WAS APPROVED AND/OR AMENDED:

PERMIT EXPIRATION DATE:

[GENERAL LEAD AGENCY INFORMATION con't]

SMARA SECTIONS 2770 AND 2773.1 REQUIRE MINE OPERATORS TO OBTAIN A LEAD AGENCY APPROVED FINANCIAL ASSURANCE TO ENSURE RECLAMATION OCCURS PURSUANT TO THE RECLAMATION PLAN. ATTACH A COPY OF THE PROPOSED/APPROVED FINANCIAL ASSURANCE.

☐ CHECK HERE IF YOU ATTACHED A COPY OF THE PROPOSED FINANCIAL ASSURANCE

☐ CHECK HERE IF YOU ATTACHED A COPY OF THE APPROVED FINANCIAL ASSURANCE

NOTE: A RECLAMATION COST ESTIMATE WORKSHEET IS ATTACHED FOR YOUR ASSISTANCE IN DETERMINING THE APPROPRIATE FINANCIAL ASSURANCE AMOUNT (APPENDIX A).

DETAILED DESCRIPTION OF RECLAMATION ACTIVITIES [attach additional sheets, if needed] [Pursuant to Public Resources Code Section 2772]

DESCRIBE THE PROPOSED USE OF THE SITE ONCE MINING CEASES AND RECLAMATION IS COMPLETED:

ATTACH EVIDENCE THAT ALL OWNERS OF A POSSESSORY INTEREST IN THE LAND TO BE MINED HAVE BEEN NOTIFIED OF THE PROPOSED END USE (eg. copies of notices sent to land owner and mineral rights owner).

☐ CHECK BOX IF EVIDENCE IS ATTACHED

PROVIDE A TIME SCHEDULE FOR THE RECLAMATION OF EACH AREA DISTURBED BY MINING. IF APPLICABLE , INDICATE RECLAMATION PHASES ON YOUR SITE MAP.

DISCUSS HOW THE IMPLEMENTATION OF THIS RECLAMATION PLAN WILL AFFECT FUTURE MINING IN THE AREA [eg. reclamation will not preclude future mining at this site since reclamation calls for open space].

DESCRIBE HOW THE PROPOSED RECLAMATION OF THE MINE SITE WILL AFFECT PUBLIC HEALTH AND SAFETY, GIVING CONSIDERATION TO THE DEGREE AND TYPE OF EXISTING AND PROBABLE FUTURE PUBLIC EXPOSURE TO THE SITE.

[DETAILED DESCRIPTION OF RECLAMATION ACTIVITIES con't]

BRIEFLY DISCUSS HOW CONTAMINANTS WILL BE CONTROLLED AND MINE WASTE WILL BE DISPOSED [eg. fuel storage]. NOTE: IF CYANIDE IS USED FOR ON-SITE PROCESSING, PRC SECTION 21151.7 REQUIRES THE PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT.

ATTACH A TOPOGRAPHIC MAP SHOWING THE CONFIGURATION OF THE SITE ONCE RECLAIMED.

☐ **CHECK BOX IF MAP IS ATTACHED**

LIST AND ATTACH COPIES OF ANY ADDITIONAL INFORMATION REQUIRED BY THE LEAD AGENCY AS INDICATED IN THE SMARA ORDINANCE [eg. reclamation of the mine site must comply with the provisions of the County's Oak Ordinance].

☐ **CHECK BOX IF ALL ABOVE LISTED DOCUMENTS ARE ATTACHED.**

RECLAMATION STANDARDS

PURSUANT TO SMARA SECTION 2773, MY RECLAMATION ACTIVITIES WILL COMPLY WITH THE FOLLOWING STANDARDS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 14, ARTICLE 9, SECTIONS 3700-3710.

CHECK APPLICABLE BOX

☐ TOPSOIL SALVAGE, MAINTENANCE, AND REDISTRIBUTION - IF THE END USE CALLS FOR REVEGETATION OR CULTIVATION OF DISTURBED LANDS, I AGREE TO CONDUCT TOPSOIL SALVAGE, MAINTENANCE, AND REDISTRIBUTION ACTIVITIES IN CONFORMANCE WITH CCR SECTION 3711.

Explain the reclamation procedures you will use to meet the standard cited above:

[RECLAMATION STANDARDS con't]

CHECK APPLICABLE BOX

☐ REVEGETATION - REVEGETATION WILL BE A PART OF MY APPROVED RECLAMATION PLAN. I AGREE TO CONDUCT MY REVEGETATION ACTIVITIES IN CONFORMANCE WITH CCR SECTION 3705.
UNLESS NON-NATIVE SPECIES SUCH AS FORAGE GRASSES OR ORNAMENTALS WILL BE USED, SPECIFY AT LEAST FOUR NATIVE SPECIES THAT OCCUR ON SITE OR IN THE VICINITY OF THE PROJECT AND WILL BE USED FOR REVEGETATION.

☐ CHECK BOX IF THE END USE PRECLUDES REVEGETATION OR THE CULTIVATION OF DISTURBED LANDS.

☐ CHECK BOX IF REVEGETATION IS NOT CONSISTENT WITH THE APPROVED END USE.

PROPOSED REVEGETATION PLAN:

PROPOSED REVEGETATION MIX:

[RECLAMATION STANDARDS con't]

_ **SUCCESS OF REVEGETATION WILL BE JUDGED UPON THE EFFECTIVENESS OF THE VEGETATION FOR THE APPROVED END USE AND BY COMPARING QUANTIFIED VEGETATIVE COVER, DENSITY, AND NUMBER OF SPECIES OF THE RECLAIMED MINED LANDS TO LOCAL AREAS OF NATURALLY OCCURRING VEGETATION OR PRE-MINING CONDITIONS (BASELINE).**

	BASELINE	PERFORMANCE STANDARD
DENSITY (NOTE 1)		
COVER (NOTE 2)		
SPECIES RICHNESS (NOTE 3)		

NOTE 1: NO. OF INDIVIDUAL PERENNIAL PLANTS ROOTED PER 100 SQ FT
NOTE 2: VERTICAL PROJECTION OF PERENNIAL PLANTS ONTO GROUND EXPRESSED AS % [eg. if the sun was directly over a specified area, what percentage of that area would be shaded by the trees, plants, etc.].
NOTE 3: NO. OF PERENNIAL SPECIES PER 100 SQ FT

CHECK APPLICABLE BOX

☐ IF THE MINING OPERATION WILL NOT BE CONDUCTED ON PRIME AGRICULTURAL LANDS, AND THE SITE'S END USE WILL NOT BE AGRICULTURE, CHECK THIS BOX.

☐ IF THE MINING OPERATION WILL BE CONDUCTED ON PRIME AGRICULTURAL LANDS, BUT THE SITE'S END USE WILL NOT BE AGRICULTURE, CHECK THIS BOX.

☐ PRIME AGRICULTURAL LAND RECLAMATION - THE MINING OPERATION WILL BE CONDUCTED ON PRIME AGRICULTURAL LANDS, AND THE SITE'S END USE WILL BE AGRICULTURAL. THUS, I AGREE TO RECLAIM PRIME AGRICULTURAL LANDS IN CONFORMANCE WITH CCR SECTION 3707. (Explain the reclamation procedures you will use to meet the standard cited above)

_ **RECLAMATION SUCCESS WILL BE JUDGED ON THE FOLLOWING PERFORMANCE STANDARD**

BASELINE PERFORMANCE STANDARD

PRODUCTIVITY

[RECLAMATION STANDARDS con't]

CHECK APPLICABLE BOX

☐ OTHER AGRICULTURAL LAND RECLAMATION - THE MINING OPERATION WILL BE CONDUCTED ON NON-PRIME AGRICULTURAL LANDS WHERE THE SITE'S END USE WILL BE AGRICULTURE. THUS, I AGREE TO RECLAIM NON-PRIME AGRICULTURAL LANDS IN CONFORMANCE WITH CCR SECTION 3708. (Explain the reclamation procedures you will use to meet the standard cited above)

_ **RECLAMATION SUCCESS WILL BE JUDGED ON THE FOLLOWING PERFORMANCE STANDARD**

BASELINE **PERFORMANCE STANDARD**

PRODUCTIVITY

NOTE: PERFORMANCE STANDARD SHOULD BE BASED ON PRODUCTIVITY [eg. bushels per acre, tons per acre].

☐ IF THE MINING OPERATION WILL BE CONDUCTED ON NON-PRIME AGRICULTURAL LANDS, BUT THE SITE'S END USE WILL NOT BE AGRICULTURE, CHECK THIS BOX.

☐ WILDLIFE PROTECTION - I AGREE THAT ALL WILDLIFE AND WILDLIFE HABITAT WILL BE PROTECTED IN ACCORDANCE WITH CCR SECTION 3703 [CHECK BOX]. Provide a description of how the above protection will be accomplished:

CHECK APPLICABLE BOX

☐ BACKFILLING, REGRADING, SLOPE STABILITY, AND RECONTOURING - I AGREE THAT ALL BACKFILLING, REGRADING, SLOPE STABILITY, AND RECONTOURING WILL CONFORM WITH CCR SECTION 3704. Explain the reclamation procedures you will use to meet the standard cited above:

☐ CHECK THIS BOX IF FINAL RECLAIMED FILL SLOPES, INCLUDING PERMANENT PILES OR DUMPS OF MINE WASTE ROCK AND OVERBURDEN, WILL NOT EXCEED 2:1 (HORIZONTAL:VERTICAL).

EXPLANATION:

[RECLAMATION STANDARDS con't]

☐ CHECK THIS BOX IF FINAL RECLAIMED FILL SLOPES, INCLUDING PERMANENT PILES OR DUMPS OF MINE WASTE ROCK AND OVERBURDEN, WILL BE _____:_____ [INDICATED SLOPE RATIO] WHICH IS STEEPER THAN 2:1 (HORIZONTAL:VERTICAL). ATTACH A SITE-SPECIFIC GEOLOGIC AND ENGINEERING ANALYSIS THAT DEMONSTRATES THAT THE PROPOSED FINAL SLOPE WILL HAVE A MINIMUM SLOPE-STABILITY FACTOR OF SAFETY THAT IS SUITABLE FOR THE PROPOSED END USE, AND THAT THE PROPOSED FINAL SLOPES CAN BE SUCCESSFULLY REVEGETATED.

EXPLANATION:

_ PLEASE PROVIDE A GEOLOGIC CROSS SECTION OF CUT AND FILL SLOPES AT LOCATIONS OF MAXIMUM SLOPE HEIGHT. PLEASE IDENTIFY CROSS SECTION LOCATIONS ON THE SITE MAP.

☐ DRAINAGE, DIVERSION STRUCTURES, WATERWAYS, AND EROSION CONTROL - I AGREE THAT ALL DRAINAGE, DIVERSION STRUCTURES,WATERWAYS, AND EROSION CONTROL FACILITIES WILL CONFORM TO CCR SECTION 3706 [CHECK BOX]. Explain the reclamation procedures you will use to meet the standard cited above:

_ IDENTIFY ALL DRAINAGE, DIVERSION STRUCTURES, WATERWAYS, AND EROSION CONTROL FACILITIES ON THE SITE MAP

☐ BUILDING, STRUCTURE, AND EQUIPMENT REMOVAL - I AGREE TO RECLAIM ANY BUILDINGS, STRUCTURES, AND EQUIPMENT AREAS IN CONFORMANCE WITH CCR SECTION 3709 [CHECK BOX]. Explain the reclamation procedures you will use to meet the standard cited above:

_ IDENTIFY ON THE SITE MAP THE LOCATION(S) WHERE ALL EQUIPMENT, SUPPLIES, AND OTHER MATERIALS WILL BE STORED;

_ IDENTIFY WHICH BUILDINGS, STRUCTURES AND EQUIPMENT WILL BE: (1) DISMANTLED AND REMOVED OFF SITE; AND/OR (2) REMAIN ON SITE AS CONSISTENT WITH THE END USED.

☐ CLOSURE OF SURFACE OPENINGS - I AGREE TO CLOSE ALL SURFACE OPENINGS IN ACCORDANCE WITH CCR SECTION 3712 [CHECK BOX]. Explain the reclamation procedures you will use to meet the standard cited above:

_ IDENTIFY ALL SURFACE OPENINGS ON SITE MAP.

[RECLAMATION STANDARDS con't]

CHECK APPLICABLE BOX

☐ STREAM PROTECTION, INCLUDING SURFACE AND GROUNDWATER - I AGREE STREAMS, INCLUDING SURFACE AND GROUNDWATER WILL BE PROTECTED IN ACCORDANCE WITH CCR SECTION 3710. Explain the reclamation procedures you will use to meet the standard cited above:

☐ CHECK THIS BOX IF THE MINING OPERATION IS CONDUCTED IN A STREAM OR OTHER WATERWAY AND ATTACH CROSS SECTIONS, OR AERIAL PHOTOGRAPHS, IDENTIFYING BASELINE STREAMBED ELEVATIONS.

_ CHANGES IN CHANNEL ELEVATIONS AND BANK EROSION SHALL BE EVALUATED ANNUALLY. EXTRACTION QUANTITIES AND ANNUAL CROSS SECTIONS AND/OR AERIAL PHOTOGRAPHS SHOULD BE SUBMITTED WITH THE ANNUAL REPORT REQUIRED BY PRC SECTION 2207.

☐ CHECK THIS BOX IF THE MINING OPERATION IS NOT CONDUCTED IN A STREAM OR OTHER WATERWAY.

MONITORING

Pursuant to CCR Section 2773(a), the success of reclamation will be monitored for three years, or 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. Remedial measures will be implemented as necessary to achieve the performance standards.

LEAD AGENCY CERTIFICATION

I, the undersigned, hereby certify that this reclamation plan complies with the applicable requirements of Articles 1 and 9 (commencing with Sections 3500 et seq. and 3700 et seq., respectively) of Chapter 8 of Division 2 of Title 14 of the California Code of Regulations, and with the requirements of the Surface Mining and Reclamation Act, Sections 2710 et seq.

Signed this_____day of _____ , 19____

Planning Director

STATEMENT OF RESPONSIBILITIES

I, the undersigned, hereby agree to accept full responsibility for reclamation of all mined lands as described and submitted herein and in conformance with the applicable requirements of Articles 1 and 9 (commencing with Sections 3500 et seq. and 3700 et seq., respectively) of Chapter 8 of Division 2 of Title 14 of the California Code of Regulations, the Surface Mining and Reclamation Act commencing with Section 2710 et seq., and with any modifications requested by the administering agency as conditions of approval.

Signed this_____day of _____, 19____

Mine Operator or Operator's Agent

APPROVED

LEAD AGENCY REPRESENTATIVE (S)	DATE
(1)	
(2)	

CHECKLIST OF ATTACHMENTS

- ☐ MAP THAT IDENTIFIES HOW TO ACCESS THE MINE SITE FROM THE HIGHWAY
- ☐ TOPOGRAPHIC MAP OF LANDS THAT WILL BE AFFECTED BY MINING OPERATION
- ☐ COPY OF THE PROPOSED FINANCIAL ASSURANCE
- ☐ COPY OF THE APPROVED FINANCIAL ASSURANCE
- ☐ EVIDENCE ALL OWNERS OF A POSSESSORY INTEREST IN THE LAND TO BE MINED HAVE BEEN NOTIFIED OF THE END LAND USE
- ☐ TOPOGRAPHIC MAP SHOWING THE CONFIGURATION OF THE SITE ONCE RECLAIMED
- ☐ OTHER INFORMATION REQUIRED BY LEAD AGENCY'S SMARA ORDINANCE

  DESCRIBE:

- ☐ GEOLOGIC REPORT
- ☐ OTHER REPORTS OR DOCUMENTS

  DESCRIBE: