

## Subsequent Mitigated Negative Declaration

**Note: Pursuant to Section 15162 of the California Environmental Quality Act, this document is a Subsequent Mitigated Negative Declaration. The previous document *Conditional Negative Declaration* is available and can be reviewed at the Humboldt County Community Development Services, Planning Division, 3015 H Street, Eureka, California.**

- 1. Project title:** **Hagan Quarry (James Wheeler, Applicant)**  
Renewal of Surface Mining/Conditional Use Permits/Approval of Reclamation Plan and Review of Financial Assurance Cost Estimate Application  
APN **214-116-06, -08** (Phillipsville area)  
Case Nos.: **RP-09-01/CUP-09-11/SMP-09-01**
- 2. Lead agency name and address:** Humboldt County Community Development Services, 3015 H Street, Eureka, CA 95501-4484; Phone: (707) 445-7541; Fax (707) 445-7446
- 3. Contact person and phone number:** Michael E. Wheeler, Senior Planner, (707) 268-3730
- 4. Project location:** The project is located in Humboldt County, in the Phillipsville area, on the east side of Crooked Lane, approximately 0.45 miles east from the intersection of State Highway 254 and Crooked Lane, on the properties known to be in the Northwest 1/4 of Section 18 Township 03 South Range 04 East.
- 5. Project sponsor's name and address:**

**APPLICANT**

WHEELER, JAMES  
PO BX 294  
Miranda, CA 95553  
Phone: (707) 943-3424

**OWNER(S)**

HAGAN JOHN A & EVELYN W LE  
3901 Wollochet Dr. NW  
Gig Harbor, WA 98335

**AGENT**

BOB BROWN  
1062 G Street  
Arcata, CA 95521  
Phone: 707-822-5785

- 6. General plan designations:** Timber Production (T) Framework Plan (FRWK).  
**Density:** 160 to 20 acres per dwelling unit. **Slope Stability:** Moderate Instability (2)
- 7. Zoning:** Timberland Production (TPZ) and Agriculture Exclusive (AE).
- 8. Description of project:** A 15-year renewal of Conditional Use/Surface Mining Permits and Reclamation Plan and review of financial assurance cost estimates for an existing surface mining operation known as the Hagan Quarry. The site has historically been mined since at least the 1960s. The original permit allowed for extraction of 100,000 cubic yards annually of greywacke, which will be used locally for highway construction projects, rip rap, erosion control, rockslope protection and landscaping purposes. Operations include drilling, blasting, sorting, crushing, stockpiling, transportation of material via dump trucks, on-site road and staging area improvements, revegetation, and final reclamation. No washing and no asphalt/cement batch processing will be conducted on site. No new access roads to the quarry will be constructed. Materials will be transported to Highway 254 utilizing one (1) mile of a graveled, private road (16' - 24' wide). Heavy equipment to be used on site includes: front-end loaders, caterpillar tractors, dump trucks, excavators, rock crusher, portable screen plant and weigh scales. The permit term is 15 years and will expire February 20, 2025.
- 9. Other public agencies whose approval is required** (e.g. permits, financing approval, or participation agreement): North Coast Air Quality Management District, California Department of Conservation, Office of Mine and Reclamation (Reclamation Plan and Financial Assurance Approval), California Department of Fish and Game and the California Department of Forestry and Fire Protection.

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Aesthetics                    | <input checked="" type="checkbox"/> Agriculture Resources              | <input checked="" type="checkbox"/> Air Quality              |
| <input checked="" type="checkbox"/> Biological Resources          | <input checked="" type="checkbox"/> Cultural Resources                 | <input checked="" type="checkbox"/> Geology / Soils          |
| <input checked="" type="checkbox"/> Hazards & Hazardous Materials | <input checked="" type="checkbox"/> Hydrology / Water Quality          | <input type="checkbox"/> Land Use / Planning                 |
| <input checked="" type="checkbox"/> Mineral Resources             | <input checked="" type="checkbox"/> Noise                              | <input type="checkbox"/> Population / Housing                |
| <input type="checkbox"/> Public Services                          | <input type="checkbox"/> Recreation                                    | <input checked="" type="checkbox"/> Transportation / Traffic |
| <input type="checkbox"/> Utilities / Service Systems              | <input checked="" type="checkbox"/> Mandatory Findings of Significance |  |

**DETERMINATION:**

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project COULD have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A SUBSEQUENT MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project COULD have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

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Signature

Date

Michael E. Wheeler, Senior Planner

Humboldt County Community Development Services

## EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take into account the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review: The Conditional Negative Declaration is available for review at the Humboldt County Community Development Services, 3015 H Street, Eureka CA.
  - b) Impacts Adequately Addresses. Identify which effects from the above checklist were within the scope of and adequately analyze in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are “Less Than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plan, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
  - a.) Reclamation Plan for Quarry
  - b.) Plan of Operations for Quarry
  - c.) Project maps and figures

- 8) This is only a suggested form, and lead agencies are free to use different formats, however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue identify:
  - a) The significant criteria or threshold, if any, used to evaluate each question; and
  - b) The mitigation measure identified, if any, to reduce the impact to less than significant.

## CHECKLIST, DISCUSSION OF CHECKLIST RESPONSES, PROPOSED MITIGATION

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
<b>I. AESTHETICS:</b> Would the project:				
a) Have a substantial adverse effect on a scenic vista	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Discussion:** The County approved operations in 1995, but the site had been mined at least since the 1960's. The project site is surrounded predominantly by timber lands. The project is located in the Phillipsville area, on the east side of Crooked Lane, approximately 0.45 miles east from the intersection of State Highway 254 and Crooked Lane. There are no designated state scenic highways in the project vicinity. No scenic resources such as trees, rock outcroppings and historic buildings within view of a state scenic highway or public area will be destroyed or altered by the continuation of this project. The quarry area will revert back consistent with the plan designation, zoning and surrounding timberland and agricultural uses.

The project is intermittent and limited to daylight hours. The nearest residence is located about 1500' from the site. Because of the remote location, intermittent nature of the operation and the limited hours of activity, impact on light, glare or nighttime views is considered less than significant.

**II. AGRICULTURE AND FOREST RESOURCES:** In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The County approved operations in 1995, but the site had been mined since the 1960's. The project is located in the Phillippsville area, on the east side of Crooked Lane, approximately 0.45 miles east from the intersection of State Highway 254 and Crooked Lane. The surrounding land use is predominantly timber production. The site does not consist of prime agricultural crop land. The quarry area is approximately 20.0 acres. The project does not conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g)). The rock to be quarried consists of metagreywacke sandstone. The extraction operation will not be conducted on designated prime, unique or important agricultural lands. The project will not convert prime or unique farmland of statewide importance to non-agricultural use. The quarry area will revert back consistent with the plan designation, zoning and surrounding agricultural and timber production uses. The project does not involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use. Following closure, the area is to be reclaimed to previous forest uses. There is no evidence that the project will have a significant adverse impact on agricultural or timber resources.

**III. AIR QUALITY:** Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion: The County approved operations in 1995, but the site had been mined since the 1960's. The project site is surrounded predominantly by timber lands. The closest residence is approximately 1500' away. The site lies within the North Coast Air Basin (NCAB). No final attainment plan currently exists for Humboldt County.

Air pollutants could result from the project. Emissions from extraction and processing equipment and from trucks used for transporting rock off-site would be created when the site is active. Operations will not result in significant contributions to PM10 levels in the area due to the scale and intermittent nature of the project. Mining operations will be done infrequently and for limited duration. The quarry is not located in a geologic ultramafic rock unit and does not contain asbestos, serpentine or ultramafic rock. If naturally-occurring asbestos (NOA) is discovered within the project site, any areas left exposed will be encapsulated by re-soiling during final reclamation. Dust abatement measures used during operations, periodic watering of working areas, including extraction areas and the haul road, spraying rock before crushing and wetting truckloads before hauling, will minimize airborne dust. Equipment is generally subject to emission standards, and exceeding those standards may constitute a "nuisance" condition, and can be mitigated by proper vehicle maintenance. Personnel operating heavy equipment at the site will be exposed to airborne dust. The measures above with the use of facemasks will minimize the level of PM10 exposure to less than significant levels.

Dust would only be created at times when the site is active. The major sources of dust at the site would be from extraction of the rock face, and equipment activity and loading within the staging area. The dust generated on site is insignificant, as there is a minimal amount of soil extracted with the gravel and rock. There are no sensitive receptors (e.g. residences) near enough to the project site to be adversely affected (Note: the nearest residence to the quarry is more than 1,500 feet away). Dust generated by traffic on Rock Pit Lane will be minimal, since dust control will occur routinely at times of activity from water trucks filled on and off-site (at permitted water sources – See Chapter II, Section 6 & 9 for more information). Truck traffic is similar to the historic mining and timber-related traffic that has utilized Rock Pit Lane in the past.

Application submittals included an investigation of whether asbestos-bearing materials exist at the site. According to the California Air Resources Board Asbestos ATCM, "asbestos-containing material" is defined as material with an asbestos content greater than 0.25 percent as determined by ARB Test Method 435. Based on the results of the field investigation prepared by a registered geologist it was determined that no 'asbestos-containing material' was found to occur at the existing rock quarry. The results & conclusions section of the Geologic Assessment for Naturally-Occurring Asbestos completed by Freshwater Environmental Services (October 1, 2010) states, "*Published geologic maps of the quarry vicinity show the area as underlain by rock types that are unlikely to contain asbestos minerals. No asbestos, fibrous minerals, serpentine, or ultramafic rocks were observed during the field investigation. There were no detections of asbestos in any of the ten samples submitted for laboratory analysis. Based on field observations at the time of the investigation there is no naturally occurring asbestos exposed in the area observed including the existing stockpiles*" (See attached). The North Coast Unified Air Quality Management District has been provided the results. No further action at this time is required.

Odors created by the project consist of heavy equipment and crusher generator exhaust, but operations are intermittent and temporary.

Mitigation M-1:

1. The project shall employ Best Management Practices for Erosion and Sediment Control and Contractor Activities as identified in the California Storm Water Best Management Practice Handbook for Construction Activity, and shall comply with the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarry and Surface Mining Operations.
2. In the event NOA is discovered, the North Coast Unified Air Quality Management District will be notified immediately, and any areas left exposed will be encapsulated by re-soiling during final reclamation.

IV. BIOLOGICAL RESOURCES: Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Discussion:** The project site is surrounded by coastal conifer forest composed of several cover types, the most significant being redwood and Douglas fir. Other representative trees in the coastal conifer forest include grand fir, sitka spruce, western hemlock, maples, red alder, tan oak, wax myrtle, and cascara. Shrubs include blue blossom, salal, current, thimbleberry, salmon berry, blackberry, red and black huckleberry, rhododendron and elderberry. There is no habitat for listed fish species in the project area as it is an upland location. There are no federally protected wetlands in the project area. The project will not affect federally protected wetlands. The project will not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. The project will not conflict with a Habitat Conservation Plan, Natural Community Conservation Plan or other local, regional or state plan.

Rare, threatened or endangered species or species of special concern have not been identified on the project site. Review of the California Natural Diversity Database (CNDDB) shows the occurrence of one plant species and two bird species that occur within the vicinity of the project area. The plant species is commonly known as Howell's montia (*Montia howellii*) and the bird species are commonly known as Osprey (*Pandion haliaetus*) and American peregrine falcon (*Falco peregrinus anatum*). The plant species is mapped as a nonspecific 1 mile radius circle that includes a portion of the Quarry project are on the eastern half of the circle. The bird species are both mapped as a specific 80 meter radius circle that occurs within approximately 3,500 feet of the project area adjacent to the community of Phillipsville. The quarry site is an on-going operation in an area that is already heavily disturbed. The plant species is not known to exist at the project site. Also, because of the distance of the bird species from the project site, no conservation or mitigation measure are proposed to prevent impacts to these species.

The noise at the site is generated by mechanized equipment, including the rock crushing. Operations are intermittent and temporary. Hours of Operations shall typically be Monday through Saturday during daylight hours, generally 6:00 am to 6:00 pm; with blasting from 8:00 am to 5:00 pm. These hours do not apply to emergency road repair situations. Any substantial changes to the hours of operation shall be pre-approved by the Planning Department.

**Mitigation M-2:**

1. Reclamation will include restoration of the habitat of the site to prior conditions consistent with the plan designation, zoning and surrounding agricultural and timber production uses.
2. Hours of Operations shall typically be Monday through Saturday during daylight hours, generally 6:00 am to 6:00 pm, with blasting from 8:00am – 5:00 pm as necessary.
3. The project shall be consistent with the County’s General Plan policies re: sensitive and critical habitats.

**V. CULTURAL RESOURCES:** Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion: The project site is surrounded predominantly by timber lands. The quarry has been operational since the 1960’s and was permitted in 1995. The North Coast Information Center has indicated that their database contains no recorded archaeological sites within the project area, and has recommended approval. No known historical resources as defined in §15064.5 are known to exist at the site. The geology at the project site is not unique to the area nor is it a paleontological resource or site. There is no evidence that the project would impact archaeological resources. The project will not expand beyond its historic project boundaries.

**Mitigation M-3:**

1. If buried archaeological or historical resources are encountered during construction activities, the operator on-site shall call all work in the immediate area to halt temporarily, and a qualified archaeologist is to be contacted to evaluate the materials. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, dietary bone, and human burials. If human burial is found during construction, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains.

**VI. GEOLOGY AND SOILS:** Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- |  |                          |                                     |                                     |                          |
|--|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42? | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ii) Strong seismic ground shaking?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| iii) Seismic-related ground failure, including liquefaction?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| iv) Landslides?  | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Result in substantial soil erosion or the loss of topsoil?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

The topography of the coast range is known for its potential for landslides. The north coast of California is one of the most seismically active regions in the United States. Humboldt County in general is at risk for strong ground-shaking. The project area is in Earthquake Ground Shaking Zone E, Bedrock. Characteristics of earthquake shaking are higher accelerations but of relatively short periods and shorter duration of shaking and high slope instability.

The amount of rock extracted in any given year will be dependent on seasonal and market conditions. Extraction standards are subject to annual review by the County and the Office of Mine Reclamation. These standards have been designed to minimize erosion, prevent discharges to state waters, protect vegetation and wildlife, ensure worker safety, etc. There is no topsoil on the quarry floor and minimal topsoil on the hilltop above the quarry face. Operations will employ Best Management Practices, including erosion and sediment control, to reduce the potential for substantial loss of topsoil or soil erosion and to reduce pollutants in storm water discharge and siltation. As much as is feasible, existing vegetation will be retained, with the overall drainage pattern of the area to be maintained as much as practical. Runoff from the quarry face and floor will be directed to a depression, i.e. a detention basin, on the quarry floor for percolation and evaporation. The detention system has adequate capacity for current runoff volumes. The quarry area will revert back consistent with the plan designation, zoning and surrounding agricultural uses when the quarry is no longer economically viable. The reclamation plan will restore the area to its natural setting.

No septic or wastewater disposal systems are associated with the project.

Mitigation M-4:

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Berms along the side of the quarry floor shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the detention basin.

<b>VII. GREENHOUSE GAS EMISSIONS:</b> Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Setting:**

Sources of greenhouse gas emissions due to operation of the project include licensed equipment (front-end loader), the screen (up to 100 hp), and vehicles/trucks. The County of Humboldt completed a draft greenhouse gas reduction plan in December of 2007. Redwood Coast Energy Authority is currently completing the first step – the County-wide greenhouse gas inventory ([www.redwoodalliance.org](http://www.redwoodalliance.org)). A draft document containing the findings of the inventory will be available in the near future (RCEA Phone Call 03/02/12).

**Analysis:**

Mobile sources of greenhouse gases such as the equipment and vehicles/trucks utilized for the Quarry Operation are required to meet current emission standards to lessen the amount of greenhouse gases they generate. All equipment and vehicles/trucks at the operation are maintained & upgraded to meet current emissions standards as required by the California Air Resources Board. Due to the relatively small scale of the project, emissions from equipment and vehicles/trucks would not be significant especially when in compliance with current emission standards.

**Operating Restrictions:** Equipment and vehicles/trucks will be maintained & upgraded to meet current emission standards.

**VIII. HAZARDS AND HAZARDOUS MATERIALS:** Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discussion: The project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. The project site is not located within two miles of a public airport or public use airport; there are no known private airstrips within the vicinity of the site.

The quarry operations require fuel for equipment. The California Regional Water Quality Control Board requires that fuel storage tanks exceeding 10,000 gallons must adhere to Above Ground Petroleum Storage Act Regulations. In general, fuel storage facilities should have impermeable secondary containment. Normal maintenance will include routine lubrication and adding fluids. Maintenance supplies shall be stored in locked storage sheds. Standards of operation minimize any potential impacts from the project. The potential for contaminants is limited to operation-related activities such as equipment leaks or spills. Such contaminants from equipment shall be controlled through proper equipment operation and maintenance. Major equipment maintenance work, i.e. repairs and changing of fluids or lubricants, will be conducted off-site. Any materials contaminated by equipment leaks will be properly disposed.

The project site is located in an area subject to risk from wildland fires. The site is within a State Responsibility Area and fire jurisdiction is by Cal Fire. Extraction activity will occur at the rock face, away from vegetation, and heavy equipment shall be fire-safe, i.e. operating under a fire safety plan and equipped with spark arrestors. The access road shall be maintained free of vegetation during times of activity.

In the event that localized greywacke boulders are encountered, small scale separation charges may be performed. The nearest residence is approximately one-half (1/2) of a mile away. Blasting activities will use regulated explosives. The operator is required to hire licensed professionals. State and Federal operating standards require procedures that minimize the risk of wildfire, injury from projectiles, etc. As a standard practice, prior to blasting, adjacent neighbors will be notified of the activity, and flagmen will be posted at the quarry gate to control traffic as needed. All safety regulations concerning the use, storage, transportation and disposal of explosives will be strictly observed. Explosives will be transported to the site. Only trained personnel will transport or handle the explosives. There will be no "abandoned" equipment, structures, refuse, etc. associated with extraction and transport activity to remain on the reclaimed site or elsewhere on the parcel after extraction has been discontinued.

**Mitigation M-5:**

1. Fuel storage, if any, shall be consistent with the requirements of the California Regional Water Quality Control Board, and operations shall minimize potential impact from contaminants.
2. Blasting shall occur consistent with State and Federal operating standards and all safety regulations concerning the use, storage, transportation and disposal of explosives shall be strictly observed.

**IX. HYDROLOGY AND WATER QUALITY:** Would the project:

- |   |                          |                                     |                                     |                                     |
|---|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| a) Violate any water quality standards or waste discharge requirements?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)? | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| f) Otherwise substantially degrade water quality?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Settling basins and other stormwater improvements have been constructed on site. Water utilized at the quarry site is obtained from Anderson Creek, which occurs adjacent to the project site. A Lake and Streambed Alteration Agreement (LSAA) has been obtained by the applicant from the California Department of Fish and Wildlife. All water drafting activities at the project site will occur consistent with the work plan submitted for the LSAA. No washing is required for the current quarrying/processing method. Dust control routinely occurs at times of activity from water trucks filled on site. Water is also utilized for annual erosion control seeding activities and for fire protection purposes. There is no Waste Discharge Requirement associated with the quarry operation.

The quarry floor is graded to direct stormwater runoff to the center of the quarry where it percolates or evaporates, so no runoff is leaving the site. Operations will employ Best Management Practices, including erosion and sediment control, to reduce the potential for substantial loss of topsoil or soil erosion and to reduce pollutants in storm water discharge and siltation. As much as is feasible, existing vegetation will be retained, with the overall drainage pattern of the area to be maintained as much as practical. A containment berm has been constructed around the southern edge of the quarry to keep rainfall from leaving the site. Runoff from the quarry face and floor will be directed to a depression, i.e. a detention basin, on the quarry floor for percolation and evaporation. The quarry area will revert back consistent with the plan designation, zoning and surrounding agricultural uses when the quarry is no longer economically viable. The reclamation plan will restore the area to its natural setting.

Water is required only for dust control; water is transported to the site via water trucks. No water impoundments or diversions are proposed. The project will not draw groundwater and will not cause any change in current groundwater recharge processes. No withdrawals are proposed. No wastewater is produced by nature of the excavation process. No discharge of mineral wastes will occur to nearby tributaries. Major equipment repairs and the changing of fluids or lubricants will not take place on the site.

The site is not a part of an existing or planned stormwater drainage system. Adherence to Mining and Reclamation Plan Standards will ensure that water quality is not degraded. The project is not located within the 100 year flood plain of any adjacent stream channel. Extraction activities will not impede or redirect flood flows since the project is not located in the floodplain of any adjacent streams. No housing or structures are being proposed. No levee or dam construction is associated with the proposed project. The project is not located within a tsunami hazard zone, nor is it located on a body of water subject to seiches. Extraction activity will not occur during times of high rainfall, and based on the site and location and type of material, will not cause mudflows.

**Mitigation M-6:**

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Both the containment berm along the south side of the quarry and around the perimeter of the stockpiling area shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the saturation trench or other type of detention basin.

**X. LAND USE AND PLANNING:** Would the project:

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Physically divide an established community?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:** The County approved operations in 1995, but the site had been mined since at least 1960's. The commodity to be mined is primarily greywacke and interbedded siltstone with minor conglomerate to be used for road maintenance and repair in the area. Processed rock will also be utilized for other aggregate needs. The Framework Plan recognizes the importance of aggregate extraction sites. The quarry area will revert back consistent with the plan designation, zoning and surrounding agricultural uses when the quarry is no longer economically viable. There is no evidence that the project would result in land use and planning impacts.

**XI. MINERAL RESOURCES:** Would the project:

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

The quarry site is in a location that meets the needs of Federal, State, County and local construction projects. The project site is not delineated as a locally important mineral resource recovery site. The quarry area will revert back consistent with the plan designation, zoning and surrounding agricultural land uses when the quarry is no longer economically viable. The final reclamation will have no effect on future mining opportunities in this area. There is no evidence that the project would impact mineral resources.

**XII. NOISE:** Would the project result in:

- |                                |                                       |                              |           |
|--------------------------------|---------------------------------------|------------------------------|-----------|
| Potentially Significant Impact | Less Than Significant with Mitigation | Less Than Significant Impact | No Impact |
|--------------------------------|---------------------------------------|------------------------------|-----------|

- |   |                          |                          |                                     |                                     |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Discussion: The volume of traffic on Crooked Lane is low and consists primarily of residents and commercial vehicles, e.g. ranch and/or logging trucks. Operations will meet County noise standards. Workers will take safety measures during blasting to minimize effects to workers.

Ambient noise levels have historically been associated with quarry activities. The mine will operate on an intermittent basis with the bulk of activity to occur in the drier months. There will be long periods of time when no sounds will be generated. Increased noise levels occur only during periods of operation. Mining activities that will produce noise include extraction, processing, loading and transporting rock material.

Ambient noise levels (45-50 dBA) are low within the project area, owing to the isolated location of the project. This project, by its intermittent nature, contributes to ambient noise levels only during periods of operation. The closest residence is 1,500 feet directly west of the quarry project limits. There are four improved properties between 1,500 and 2,500 feet away from the quarry project limits. The community of Phillipsville occurs approximately 3,500 feet west of the project site. As described below all extraction and processing noise levels, excluding blasting, would be at or below 60 dBA; as predicted in Tables 1 and 2 below. The noise levels in these tables have been shown to be conservative in that they do not consider further reduction due to topographic differences or vegetative cover, which would be attenuating factors from this operation.

Drilling and blasting will occur infrequently for the life of the project. Blasting will add short and very infrequent noises at a level of 96 dBA, 1200 feet away. Instantaneous noise levels from blasting will decrease to approximately 84 dBA at one mile away. Frequency of drilling and blasting will be dependent on project scheduling. Production of 75,000 cy of rock could require a total of five detonations annually.

Equipment-related noise will occur for longer periods of time but at a lower noise level, and will reach approximately 82 dBA at 50 feet away. This noise will decrease to below 50 dBA one-half mile away and 44 dBA one mile away. Noise will also be generated by truck traffic along Rock Pit Lane. The noise level will be about 80 dBA at 50 feet from the road. There are approximately three residences along Rock Pit Lane that may be affected by noise from intermittent truck traffic. Noise levels will not be any higher than they have been for at least the past 50 years of mining operations at the site and historic timber-related traffic. The increase in noise level has and will occur only during the active periods of the quarry and will be the maximum anticipated. Project-related sounds will generally be limited to daytime operations, Monday through Saturday from 7:00 a.m. to 6:00 p.m. During the previous permitting term, there have been long periods of inactivity when no sounds are generated; this is anticipated to continue the term of this permit as well.

County standards for noise-generating activities utilize an averaging mechanism (dBA Ldn) applicable to activities that generate sound sources averaged over a 24-hour period of time, such as commonly used for measuring highway noise or industrial operations. Ten decibels are added to noise levels occurring at nighttime, between 10:00 p.m. and 7:00 a.m. Utilizing the County standard of 45 dBA Ldn interior noise level allows for a maximum of 60 dBA Ldn for 'normally acceptable' exterior levels. Nearest residence is 1,500 feet away. Four other residences are between 1,500 and 2,500 feet away

**Table 1 - Distance/dB to Nearest Residences to Project Site**

	50'	500'	1200'	2,000'	½ Mile*	1 Mile*
<b>Extraction</b>	72 – 82	52 - 62	46-56	40-50	38-48	32-42
<b>Processing</b>	85	65	59	53	51	45
<b>Hauling</b>	86	66	60	54	52	46
<b>Blasting</b>			96		90	84

The proposed project is not located within an airport land use plan or within two miles of a public airport or private airstrip.

Mitigation M-7:

1. Operations will be conducted during daylight hours, generally Monday through Saturday 6:00 am to 6:00 pm; with blasting restricted to 8:00 am to 5:00 pm Monday through Friday.

**XIII. POPULATION AND HOUSING:** Would the project:

- a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?
- c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

Discussion: The project will not produce any significant growth inducing impacts. Aggregate extraction is normally driven by growth, not vice versa. Growth inducing impacts are generally caused by projects that have a direct or indirect affect on economic, population growth, or land development. Rather than create new jobs, the project will merely maintain intermittent work for local businesses such as construction operators and haulers. No services or utilities are required to be extended to the site. The project will not displace existing housing or people. There is no evidence that the project would impact population and housing.

**XIV. PUBLIC SERVICES:**

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion: The County approved operations in 1995, but the site had been mined since at least 1960's. The project site is surrounded predominantly by timber lands. The closest residence is approximately one-half (1/2) of a mile away. The volume of traffic on the access road is low and consists primarily of residents and commercial vehicles, e.g. ranch and/or logging trucks. The mined area will revert back consistent with the plan designation, zoning and surrounding agricultural uses when the operation is no longer economically viable. No additional facilities or extension of existing facilities or increased demand for services are required for the project.

**XV. RECREATION:**

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion: No recreational facilities or development requiring the need for recreational facilities is proposed. There is no evidence that the project results in impacts associated with recreation.

**XVI. TRANSPORTATION/TRAFFIC:** Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion: The volume of traffic on Crooked Lane is low and consists primarily of residents and commercial vehicles, e.g. ranch and/or logging trucks. The roads have historically been used for quarry and timber operations.

Truck traffic generated by the project will vary with seasonal and market conditions. There will be long periods with little or no project-generated traffic. The existing traffic volume on Crooked Lane is extremely light, and operation of the quarry is not expected to have a significant impact on this roadway.

Materials will generally be transported off-site via a private access road named Rock Pit Lane (approx. 16'-20' wide) for approximately 0.8 miles to the intersection with State Route 254. State Route 254 at this location is located approximately 3 miles south and 2 miles north of access ramps onto U.S. Highway 101. Material has and will continue to be transported along this route (See Figure 2 – Project Location). Rock Pit Lane is in good condition with a graded and compacted rock surface and has been used intermittently for quarrying operations and timber harvesting activities over the last 50 years. A locked gate approximately .44 miles up Rock Pit Lane restricts access to the project site. The narrower sections have nearby turnouts, the vegetation along the roadway has been trimmed up to provide views of oncoming traffic, and the road is posted to utilize CB channel 10.

Because of the on-going intermittent operation of this project, permit approval will not cause a significant increase in existing traffic volumes. Other than the quarry and timber harvesting activities, traffic on Rock Pit Lane is low due to its isolated location and lack of improved properties. The road is regularly inspected and repaired/maintained. The section of the access road between the beginning of parcel 214-116-06 and the Quarry is maintained by the Quarry operator. The section of the access road between State Route 254 and the beginning of parcel 214-116-06 is cooperatively maintained by the Quarry operator and the neighbors which live along Rock Pit Lane. This road maintenance arrangement has occurred successfully over the last 50 years with no issues or complaints raised by the neighbors participating in the arrangement. Considering that Rock Pit Lane is in relatively good condition and subject to regular maintenance, the minimal additional traffic generated by this project is not expected to have a significant impact.

To comply with the Humboldt County Department of Public Works requests, all on-site and off-site roads (both public and private) shall be suitable for truck traffic. Roads will meet Category 4 road standards in being at least 18 feet in width when 2-way traffic is expected and Category 2 road (single lane) standards when the road is used solely for the mining operation and not for adjacent parcel access. A 4' wide shoulder will not be necessary as common use by pedestrians has never occurred and is not expected. Roads will be improved to current standards unless otherwise approved by the Department. There is currently no need to create a neighborhood traffic management plan. Entrances from private roads or driveways onto paved County maintained roads will be paved for the first 50 feet for roads and 25 feet for driveways. Encroachment permits will be obtained if necessary for road improvements.

Truck traffic generated by the project will vary with seasonal and market conditions. Assuming 75,000 cubic yards of rock transported each year, the average number of truck loads per day (300 work days, carrying 15 cubic yards/trip) will be 17 (round trip). Considering that supply periods are seasonal, a more realistic figure, consistent with past use, will be from one to twenty truck loads daily (round trip). During periods of peak use, maximum truck traffic could be 5 truck loads per hour. There will be intermittent long periods with little or no project-generated traffic.

Most of the heavy equipment used for quarrying has been/will be left on-site during active periods, minimizing the amount of slow-moving/trailer traffic present on the access routes to and from the project site. Other transportation modes or emergency access will not be impacted by the project.

The project will not affect any other emergency access route. Ample parking and room for equipment staging currently exists at the site. There is no evidence that the project will result in a significant adverse impact related to traffic and transportation.

<b>XVII. UTILITIES AND SERVICE SYSTEMS:</b> Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Discussion:** Water for wetting the road and extraction area will be obtained from a developed water source on-site and will be transported via water trucks. Minimal solid waste will be generated on site. Portable chemical toilets will be provided, as required, and maintained by a licensed pumper. The use and maintenance of the portable sanitary facility will comply with all state and county regulations. By nature of the described excavation and processing, no wastewater is produced. Site runoff and water will be returned to the groundwater table via ground percolation. No solid waste will be generated. There is no evidence that the project will adversely impact utilities and service systems.

**17): Mandatory Findings of Significance**

**Findings:** The proposal will not have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory; potential to achieve short-term, to the disadvantage of long-term, environmental goals; impacts which are individually limited, but cumulatively considerable. ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects); or environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly.

**Discussion:**

**17. MANDATORY FINDINGS OF SIGNIFICANCE**

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of major periods of California history/prehistory?

Discussion: There is no evidence that the project would substantially reduce the habitat of a fish or wildlife species or cause a fish or wildlife population to drop below self-sustaining levels. There is no evidence that the project would restrict or reduce the range or number of rare or endangered plants or animals. As noted in Section 4. *Biological Resources*, the site will be reclaimed and revegetated to an end use consistent with the zone, general plan and surrounding uses.

Several factors contribute to the conclusion of no significant biological impacts: (1) the area is located in a matrix of very similar forested habitats, which will continue to support wildlife use of the area; (2) the quarry site is developed into a hillside outcrop of aggregate rock that has been used to supply road maintenance activities since before 1995; and the project does not include expansion of the facility beyond its current footprint.

Potential project impacts have been mitigated during the planning stage of the proposal. There are no watercourses that will be impacted by the project. The project is designed to preclude the concentration of surface runoff from entering streams or erodable areas.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Discussion: The surface mining activities and final reclamation of the site have no collective impact greater than any individual component.

The proposed development does not include any short-term impacts that are to the detriment of long-term environmental goals. The project is designed and mitigated with these long-term goals in mind. The ultimate reclamation of the site will be beneficial in all cases when viewed in a context with past, present, and future projects. The proposed project is consistent with the general plan or community plan developed for the area.

The project has been reviewed in the context of all other recent discretionary approvals in the surrounding area, in the context of conformance with the applicable general plan or community plan policies and standards, and in the context of future developments which are known at the time of project review. As part of this review, the project has been determined to be consistent with the long term goals of the general plan by virtue of consistency with the provisions of the general plan designation and zoning. The project represents conditionally permitted development in the context of the general and/or community plans.

**General Plan Consistency:**

The project is consistent with general plan policies and standards. The General Plan recognizes the importance of surface mining operations. Consistency with these policies and standards assures to a large degree that potential community-wide impacts are addressed in a cumulative manner within the context of the community or general plan and its companion environmental document.

**Cumulative Impact Project List:**

There are no recent projects of a similar nature in the Phillipsville area or other known proposed projects to be considered as part of this cumulative impacts analysis. As evidenced throughout this document, the proposed project as mitigated, does not:

- (1) have the potential to degrade the quality of the environment in a cumulative manner;

Discussion: The project does have impacts that by nature are potentially cumulative. These include: increased traffic, increased soil erosion from the site, increased storm water runoff, increased noise, the increase in particulate matter, and impact to plant and wildlife.

The potential increase in traffic is not cumulatively significant because the proposed project does not cumulatively result in a significant change in level of service for public roads as identified in the general plan environmental document. The site is located in a sparsely developed timberland setting and congestion on local

roads is not a concern. Traffic increases on local roads during gravel mining activities are intermittent and temporary, constitute a small increase in average daily traffic levels.

The potential increase in soil erosion and storm water runoff is not cumulatively significant because the proposed project does not cumulatively result in a significant change in level of storm water impacts as identified in the general plan environmental document and the hydrology discussion contained in Section 8 of this document. The project incorporates Best Management Practices, including erosion and sediment control, and utilizes berms and a detention basin that has adequate capacity to handle current runoff volume.

The potential increase in noise is not cumulatively significant because the proposed project does not cumulatively result in exceeding the noise levels identified in the general plan environmental document and the noise discussion contained in Section 11 of this document.

The potential increase in air quality impacts (particulates) is not cumulatively significant because the proposed project does not cumulatively result in exceeding the threshold of significance for this category as determined by referral to the North Coast Air Quality Management District. The operations shall comply with the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarry and Surface Mining Operations. Air quality impacts for the current project and all project listed for the cumulative analysis have individually been mitigated to levels of insignificance and cumulatively as mitigated are not considered to be a significant contributor.

Based on the planned land use and zoning of the parcel, the potential environmental effects of these designations analyzed in the general/community plan review, and the recommended mitigation, the cumulative environmental effects of these categories are considered less than significant.

(2) substantially reduce the habitat of a fish or wildlife species; (3) cause a fish or wildlife population to drop below self sustaining levels; (4) threaten to eliminate a plant or animal community; and (5) reduce the number or restrict the range of a rare or endangered plant or animal;

Discussion: Please refer to Section 4. *Biological Resources*. Project impacts have been identified in this section. The site does contain habitat for three rare or sensitive plant species.

The project area does not contain habitat for the northern spotted owl, marbled murrelet, Humboldt marten or Sonoma tree vole. The noise generated by mechanized equipment, including the rock crushing assembly, may affect wildlife. Operations are intermittent and temporary. Hours of operations will be restricted to daylight hours, 6:00 am – 6:00 pm, Monday through Saturday.

The surface mining activities and final reclamation of the site have no collective impact greater than any individual component. There is no evidence that the project would result in cumulative effects because the current project is consistent with the zone and general plan, and ultimately the site will be reclaimed and revegetated to an end use consistent with the zone and general plan.

(6) eliminate important examples of the major periods of California history or prehistory;

Discussion: Please refer to section 5. Cultural Resources. As the project is not anticipated to have any impacts to cultural or historical resources, there is no potential for cumulative impacts to this category of resource.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Discussion: The proposed project will not cause cumulative adverse effects to human beings, either directly or indirectly. The proposed project is not expected to cause substantial adverse effects on human beings. The project will not generate uses which would be expected to cause adverse effects on people.

## 18. DISCUSSION OF MITIGATION MEASURES, MONITORING, AND REPORTING PROGRAM

The Department found that the project could result in potentially significant adverse impacts unless mitigation measures are required. The following is a list of Mitigation that addresses and mitigates potentially significant adverse impacts to a level of non-significance. Additional details regarding mitigation for reclamation of the site can be found in the Reclamation Plan.

Air Quality – Mitigation M-1:

1. The project shall employ Best Management Practices for Erosion and Sediment Control and Contractor Activities as identified in the California Storm Water Best Management Practice Handbook for Construction Activity, and shall comply with the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarry and Surface Mining Operations.
2. In the event NOA is discovered, the North Coast Unified Air Quality Management District will be notified immediately, and any areas left exposed will be encapsulated by re-soiling during final reclamation.

Biological Resources - Mitigation M-2:

1. Reclamation will include restoration of the habitat of the site to prior conditions consistent with the plan designation, zoning and surrounding agricultural and timber production uses.
2. Hours of Operations shall typically be Monday through Saturday during daylight hours, generally 6:00 am to 6:00 pm, with blasting from 8:00am – 5:00 pm as necessary.
3. The project shall be consistent with the County's General Plan policies re: sensitive and critical habitats.

Cultural Resources – Mitigation M-3:

1. If buried archaeological or historical resources are encountered during construction activities, the operator on-site shall call all work in the immediate area to halt temporarily, and a qualified archaeologist is to be contacted to evaluate the materials. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, dietary bone, and human burials. If human burial is found during construction, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains.

Geology - Mitigation M-4:

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Berms along the side of the quarry floor shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the detention basin.

Hazards and Hazardous Materials - Mitigation M-5:

1. Fuel storage, if any, shall be consistent with the requirements of the California Regional Water Quality Control Board, and operations shall minimize potential impact from contaminants.
2. Blasting shall occur consistent with State and Federal operating standards and all safety regulations concerning the use, storage, transportation and disposal of explosives shall be strictly observed.

Hydrology - Mitigation M-6:

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Both the containment berm along the side of the quarry and around the perimeter of the stockpiling area shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the saturation trench or other type of detention basin.

Noise - Mitigation M-7:

1. Operations will be conducted during daylight hours, generally Monday through Saturday 6:00 am to 6:00 pm; with blasting restricted to 8:00 am to 5:00 pm Monday through Friday.

**19. EARLIER ANALYSES.**

Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, one or more effects have been adequately analyzed in an earlier EIR or negative declaration. Section 16063(c)(3)(D). In this case a discussion should identify the following on attached sheets:

a) Earlier analyses used. Identify earlier analyses and state where they are available for review.

1. Humboldt County General Plan

## 2. Humboldt County Zoning Ordinance

Items 1 and 2 are available for review at Humboldt County Planning Division.

b) Impacts adequately addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measure based on the earlier analysis.

See 19.a above

c) Mitigation measures. For effects that are "Less than Significant with Mitigation Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

See 19.a above

## 20. SOURCE/REFERENCE LIST

Documents are available for review at the Humboldt County Community Development Services – Planning Division during regular business hours.

California Natural Diversity Database, 2012

Dyett and Bhatia, Urban and Regional Planners, 2002. *Humboldt 2025 General Plan Update, Natural Resources and Hazards Report*

Streamline Planning. 2013 (revised). *Hagan Quarry Mining and Reclamation Plan*.

Humboldt County. 1984. *Humboldt County General Plan, Volume 1, Framework Plan*.

McLaughlin, H. and F. Harradine. 1965. *Soils of Western Humboldt County*.

**HUMBOLDT COUNTY PLANNING & BUILDING DEPARTMENT**

**MITIGATION MONITORING REPORT**

**FOR THE Hagan Quarry CONDITIONAL USE PERMIT**

APN 214-116-06, -08; (Phillipsville area); Case Nos.: RP-09-01/CUP-09-11/SMP-09-01

**PROJECT:** A 15-year renewal of Conditional Use/Surface Mining Permits and Reclamation Plan and review of financial assurance cost estimates for an existing surface mining operation known as the Hagan Quarry. The site has historically been mined since at least the 1960s. The original permit allowed for extraction of 100,000 cubic yards annually of greywacke, which will be used locally for highway construction projects, rip rap, erosion control, rockslope protection and landscaping purposes. Operations include drilling, blasting, sorting, crushing, stockpiling, transportation of material via dump trucks, on-site road and staging area improvements, revegetation, and final reclamation. No washing and no asphalt/cement batch processing will be conducted on site. No new access roads to the quarry will be constructed. Materials will be transported to Highway 254 utilizing one (1) mile of a graveled, private road (16' - 24' wide). Heavy equipment to be used on site includes: front-end loaders, caterpillar tractors, dump trucks, excavators, rock crusher, portable screen plant and weigh scales. The permit term is 15 years and will expire February 20, 2025.

**PROJECT LOCATION:** The project is located in Humboldt County, in the Phillipsville area, on the east side of Crooked Lane, approximately 0.45 miles east from the intersection of State Highway 254 and Crooked Lane, on the properties known to be in the Northwest 1/4 of Section 18 Township 03 South Range 04 East.

**ASSESSOR'S PARCEL NUMBER(S):** 214-116-06, -08

Mitigation measures were incorporated into conditions of project approval for the above referenced project. The following is a list of these measures and a verification form that the conditions have been met. For conditions that require on-going monitoring, attach the Monitoring Form for Continuing Requirements for subsequent verifications.

**ON-GOING MITIGATION MEASURES**

Mitigation M-1:

1. The project shall employ Best Management Practices for Erosion and Sediment Control and Contractor Activities as identified in the California Storm Water Best Management Practice Handbook for Construction Activity, and shall comply with the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarry and Surface Mining Operations.
2. In the event NOA is discovered, the North Coast Unified Air Quality Management District will be notified immediately, and any areas left exposed will be encapsulated by re-soiling during final reclamation.

Implementation Time Frame	Monitoring Frequency	Date Verified	To Be Verified By	Compliance		Comments / Action Taken
				Yes	No	
Project Operations	Continuous		HCP&BD			

Mitigation M-2:

1. Reclamation will include restoration of the habitat of the site to prior conditions consistent with the plan designation, zoning and surrounding agricultural and timber production uses.
2. Operations will be conducted during daylight hours, generally Monday through Saturday 6:00 am to 6:00 pm; with blasting restricted to 8:00 am to 5:00 pm Monday through Friday.
3. The project shall be consistent with the County's General Plan policies re: sensitive and critical habitats.

Implementation Time Frame	Monitoring Frequency	Date Verified	To Be Verified By	Compliance		Comments / Action Taken
				Yes	No	
Project Operations	First Winter and as necessary		HCP&BD			

Mitigation M-3:

1. If buried archaeological or historical resources are encountered during construction activities, the operator on-site shall call all work in the immediate area to halt temporarily, and a qualified archaeologist is to be contacted to evaluate the materials. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, dietary bone, and human burials. If human burial is found during construction, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains.

Implementation Time Frame	Monitoring Frequency	Date Verified	To Be Verified By	Compliance		Comments / Action Taken
				Yes	No	
Project Operations	Continuous		HCP&BD			

Mitigation M-4:

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Berms along the side of the quarry floor shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the detention basin.

Implementation Time Frame	Monitoring Frequency	Date Verified	To Be Verified By	Compliance		Comments / Action Taken
				Yes	No	
Project Operations	First Winter and as necessary		HCP&BD			

Mitigation M-5:

1. Fuel storage, if any, shall be consistent with the requirements of the California Regional Water Quality Control Board, and operations shall minimize potential impact from contaminants.
2. Blasting shall occur consistent with State and Federal operating standards and all safety regulations concerning the use, storage, transportation and disposal of explosives shall be strictly observed.

Implementation Time Frame	Monitoring Frequency	Date Verified	To Be Verified By	Compliance		Comments / Action Taken
				Yes	No	
Project Operations	Continuous		HCP&BD			

Mitigation M-6:

1. The project shall employ Best Management Practices (BMP's) for Erosion and Sediment Control (ESC) and Contractor Activities (CA) as identified in the California Storm Water Best Management Practice Handbook for Construction Activity.
2. Both the containment berm along the south side of the quarry and around the perimeter of the stockpiling area shall be maintained to keep rainfall from leaving the site, and runoff from the quarry face and floor shall be directed to the saturation trench or other type of detention basin.

Implementation	Monitoring	Date Verified	To Be Verified	Compliance	Comments /
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<b>Time Frame</b>	<b>Frequency</b>		<b>By</b>	<b>Yes</b>	<b>No</b>	<b>Action Taken</b>
Project Operations	Continuous		HCP&BD			

Mitigation M-7:

1. Operations will be conducted during daylight hours, generally Monday through Saturday 6:00 am to 6:00 pm; with blasting restricted to 8:00 am to 5:00 pm Monday through Friday.

<b>Implementation Time Frame</b>	<b>Monitoring Frequency</b>	<b>Date Verified</b>	<b>To Be Verified By</b>	<b>Compliance</b>		<b>Comments / Action Taken</b>
				<b>Yes</b>	<b>No</b>	
Project Operations	Continuous		HCP&BD			

\*\* HCP&BD = Humboldt County Planning and Building Department  
 CDF&G = California Department of Fish and Game  
 NCUAQMD = North Coast Unified Air Quality Management District  
 RWQCB = Regional Water Quality Control Board