RESOLUTION OF THE ZONING ADMINISTRATOR
OF THE COUNTY OF HUMBOLDT

Resolution Number 25-056

Record Number PLN-2025-19189
Assessor's Parcel Number 531-022-002

Making the required findings for certifying compliance with the California Environmental Quality Act and conditionally approving the Bald Hills Road Quarry #2 Conditional Use/Mining Permit and Reclamation Plan 15-year Reapproval

WHEREAS, Humboldt County Department of Public Works staff submitted an application and evidence in support of reapproving an expired 15-year term of the Bald Hills Road Quarry #2 Conditional Use/Mining Permit and Reclamation Plan (CUP-06-93XMX/SMP-06-93XMX); and

WHEREAS, the Humboldt County Planning Division has reviewed the submitted application, PLN-2025-19189, and evidence and has referred the application and evidence to reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, the Humboldt County Planning Division has reviewed the submitted application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, a mitigated Negative Declaration was adopted for the original permit in 1994, a Subsequent Mitigated Negative Declaration was adopted for the permit renewal in 2010, and no changes are proposed to the approved permits, therefore no additional environmental review is required; and

WHEREAS, the Humboldt County Planning Division staff report includes evidence in support of making all of the required findings for approving the proposed 15-year reapproval of the surface mining operation; and

WHEREAS, on August 21, 2025, a public hearing was held to receive public testimony on the proposed project.

THEREFORE, BE IT RESOLVED, that the Zoning Administrator makes all the following findings:

1. **FINDING:** **Project Description:** Reapproval of a 15-year term of a previously approved, existing surface mining rock pit. The

operation includes total extraction and processing of up to 15,000 cubic yards of material over 15 years. No changes to the extraction volume, location or Reclamation Plan are proposed. The annual volume, locations and extraction methods will be consistent with the prior approval and other regulatory agencies.

EVIDENCE: a) Project File: PLN-2025-19189

2. FINDING: **CEQA:** The project complies with the requirements of the California Environmental Quality Act. The Humboldt County Zoning Administrator has considered the Mitigated Negative Declaraion previously adopted for the original project in 1992, and the Subsequent Mitigated Negative Declaration adopted for the project renewal in 2010 pursuant to Section 15164 of the CEQA guidelines.

EVIDENCE: a) The project was previously subject to CEQA review, mitigation measures were incorporated and are now part of the project.

b) No expansion is proposed; no changes are proposed.

c) The project is subject to review and approval by the County and other affected agencies annually.

Conditional Use Permit (*Title III, Div. 1, Chapter 2, §312-17.1, Required Findings,* of the Humboldt County Code)

3. FINDING: The proposed development is in conformance with the County General Plan

EVIDENCE: a) Mining permits are conditionally permitted in all land use and zoning designations (Humboldt County Code (HCC), Section 391-1, Surface Mining Ordinance).

4. FINDING: The proposed development is consistent with the purposes of the existing zone in which the site is located.

EVIDENCE: a) Mining permits are conditionally permitted in all land use and zoning designations (Humboldt County Code (HCC), Section

391-1, Surface Mining Ordinance). Final reclamation will return the land consistent with surrounding rural residential uses.

5. FINDING: The proposed development conforms with all applicable standards and requirements of these regulations.

EVIDENCE: a) Notwithstanding the requirement for a Conditional Use Permit for the removal of natural material for commercial purposes for inland areas, and compliance with the development standards of the base and combining zones, general regulations applicable to all zones, several zones and special areas as listed apply to the project. These regulations are contained in the County's Mining Ordinance (HCC Section 391-1 *et seq.*) and require that:

- The proposed surface mining operation incorporates adequate measures to mitigate the probable or known significant environmental effects caused by the proposed operation.

- The proposed surface mining operation and use is properly located in accordance with the General Plan and any relevant element thereof, to the community as a whole, and to other land uses in the vicinity.

These findings are largely incorporated within plan conformance findings for Conditional Use Permits and as directed under CEQA.

In addition to the above approval criteria, HCC Section 313-61.2.6 establishes mining permit standards above and beyond that minimally required under SMARA. These standards include:

- All private encroachments leading to a surface mining operation shall be adequately surfaced to prevent aggregate or other materials from being drawn into the public way.

- All haul roads and driveways shall be maintained as necessary to minimize the emission of dust and prevent the creation of a nuisance to adjacent properties.
- Any water discharges from the mined lands shall meet all applicable water quality standards of the Regional Water Quality Control Board and other agencies with authority over such discharges.
- Adequate measures shall be taken to assure the prevention of erosion from mined lands and adjacent properties during the life of the operation. The reclamation plan shall insure the prevention of erosion subsequent to surface mining operations.
- Unless specifically authorized for the purposes of environmental enhancement by the California Department of Fish and Wildlife (and the U.S. Army Corps of Engineers, if necessary), grades and land forms in mined lands shall be maintained in such a manner so as to avoid accumulations of water that will serve as breeding areas for mosquitoes or sites for fish entrapment.
- Excavations, which could affect groundwater, shall not substantially reduce the quality or quantity of groundwater available in the area surrounding the mined lands.
- Surface mining operations in areas where other agencies have regulatory jurisdiction shall be operated so as to comply with all applicable rules and regulations.

Based on information contained in the application and environmental documentation, the project has been designed or is being conditioned to assure compliance with these standards.

6. FINDING: The proposed development and conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.

EVIDENCE: a) See Findings and Evidence for Approving Reclamation Plans, below.

Conditional Use Permit for Surface Mining (*Title III, Div. 9, Chapter 1, §391-4(b)(3)(a) and (b), Procedure for Review and Action on Applications*, of the Humboldt County Code)

7. **FINDING (a):** The application package adequately describes the proposed surface mining operations and adequate measures are incorporated to mitigate significant environmental effects which may be caused by the proposed operation.

EVIDENCE: a) The application is for reapproval of a mining permit for continued rock quarry mining operations. The 15-year term of the prior approval expired prior to submitting application for renewal. A Mitigated Negative Declaration was adopted in 1994 for the original permit approval and a Subsequent Mitigated Negative Declaration (SMND) was adopted in 2010 for a 15-year permit renewal. The SMND included mitigation measures that along with the original conditions of approval were incorporated into the project and are, in effect, part of the project that is being considered. These measures have been and will continue to be in force and monitored annually by County Planning staff. There are no changes in operations, law, or the environment that warrant further environmental review. The requested permit renewal can be found exempt from the California Environmental Quality Act (CEQA) as a Class 1 Categorical Exemption, Existing Facilities

8. **FINDING (b):** The proposed use and location of the surface mining operation is properly located in accordance with the General Plan.

EVIDENCE: a) Mining permits are conditionally permitted in all land use and zoning designations (2017 General Plan, Chapter 10, Mineral Resources, Section 10.4.4, Surface Mining Standards).

15-Year Permit Term (*Title III, Div. 9, Chapter 1, §391-4(b)(6), Term,* of the Humboldt County Code)

9. FINDING: The life expectancy of the operation justifies a 15-year term.

EVIDENCE: a) The estimated total volume of rock contained in the site in 1994 was 35,000 cubic yards. The total volume extracted since 1994 is 19,460 cubic yards.

10. FINDING: There are no special circumstances related to the operation that would cause the term to be set for less than 15 years.

EVIDENCE: a) Referral notices were sent to affected agencies, and no agencies indicated that the term should be less than 15 years. County staff are not aware of any special circumstances that should limit the term.

11. FINDING: The mine has been conducted in compliance with permit conditions.

EVIDENCE: a) The operation has been inspected annually by County Planning staff for compliance with the Reclamation Plan and conditions of approval and mitigation measures. The most recent inspection report from October 2024 shows no violations or issues.

12. FINDING: Existing Mitigation Measures and Conditions reduce environmental impacts to less than significant and all impacts are addressed.

EVIDENCE: a) Following review of relevant regulations and consultation with interested agencies, there are no changes in the law or circumstances that warrant additions or changes to conditions or mitigation measures.

Reclamation Plan (*Title III, Div. 9, Chapter 1, §391-5(b)(2), Approval,* of the Humboldt County Code)

Public Resources Code (PRC) Sections 2772, 2773 and 2774 specify the information and documents required for all reclamation plans.

The full contents to satisfy required Findings A through P are found in the Reclamation Plan for the Bald Hills Road Quarry #2 submitted for this project, unless otherwise noted.

The name and address of operator and agent.

Page 3 of Reclamation Plan (RP) -
Operator: Humboldt County Department of Public Works (HCPW), 1106 Second Street, Eureka, CA 95501
Agent: HCPW

The names and addresses of the owners of all surface and mineral interests of such lands.

Page 3 of RP -
Green Diamond Resource Company, PO Box 68, Korbel, CA 95550

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

Page 3 of RP –
15,000 cubic yards (cy) over 15 years. Mining may consist of a single 15,000 cy extraction, or smaller extractions as frequently as annually, totaling 15,000 cy over 15 years.

The proposed dates for the initiation and termination of such operation.

Page 3 of RP –
This is a reapplication of an existing operation. The term of the permits and Reclamation Plan is 15 years to expire August 21, 2040. The Surface Mining Ordinance allows for up to a 15-year permit term subject to future extensions.

The maximum anticipated depth of the surface mining

operation.

Page 3 of RP –
70 feet.

The size and legal description of the lands that will be affected by such operation.

Page 3 and 4 of RP -
Size: Total acres to be disturbed is 2.8 acres.

Legal Description: In Section 29, T9N, R3E, H.B. & M.

A map that includes the boundaries and topographic detail of such lands, the location of all streams, roads, railroads, and utility facilities within, or adjacent to, such lands, the location of all proposed access roads to be constructed in conducting such operation,

Pages 4 of RP -
Project Vicinity, Project Location, Topographic Map.

A description of the general geology of the area, a detailed description of the geology of the area in which surface mining is to be conducted,

Page 9 of RP –
This site lies within a region of Franciscan sandstone made up chiefly of greywacke, interbedded shale, minor conglomerate and thin-bedded chert. It 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 South Fork Mountain Fault (a major east-dipping thrust fault) is about three miles east of the quarry).

A description of and plan for the type of surface mining to be employed and a time schedule that will provide for the completion of surface mining on each segment of the mined lands so that reclamation can be initiated at the earliest

possible time on those portions of the mined lands that will not be subject to further disturbance by the surface mining operation

Page 2-3 of RP -
The mining method to be used will be consistent with how HCPW has conducted quarrying activities over the past 30 years (1994 and 2009 permit periods). Extraction will be accomplished by ripping and breaking up the rock with a bulldozer. The material will then be pushed into temporary surge piles on the quarry floor for crushing. In the event localized greywacke boulders are encountered, small-scale separation with charges may be performed. Rock extraction will work into the face by ~20 ft. The alignment of the quarry face will remain about the same.

Mining and crushing will be done during daylight hours (sunrise to sunset), primarily on weekdays. The average time period from extraction to stockpiling will be about 4-6 weeks.

The duration and intensity of the operation will be dependent on demand, but can be expected to be active on a seasonal basis for the next fifteen (15) years.

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

Page 18 of RP -
This parcel is zoned Timber Production Zone with a Humboldt County General Plan land use designation of Timberland. The property owner was consulted regarding post reclamation land use and has clearly indicated that they intend to continue utilization of the site as a "borrow pit", for aggregate stockpiling, and for equipment and materials storage once HCPW operations are complete. Interim reclamation will take place following termination of HCPW operation of the site. Maintenance and monitoring by HCPW will continue for a maximum of three years unless the landowner begins borrow

operations prior to the end of that three-year period. Continued use of the site as a borrow pit is a compatible use on land zoned for timber production.

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

Page 11 of RP –
The method of wetting the quarry access road and quarry floor with water (supplied from an offsite source) will be utilized to control fugitive dust. An equipment dust suppression system is utilized during crushing operations. The system includes a large water storage tank located adjacent to the equipment. A portable gas-powered pump supplies water to strategically located misters, typically installed at the screen deck and conveyor head-pulleys. Misters may also be utilized on the cone and/or jaw, depending on the volume of dust generated by the material being processed.

Due to the geological characteristics of the soil and the exposed nature of the quarried material, very little overburden exists. The result is a high percentage of usable material with a minimum amount of natural fines. Therefore, all material quarried from the site is blended and utilized, resulting in no production of tailing or mine waste.

A description of the manner in which rehabilitation of affected streambed channels and streambanks to a condition minimizing erosion and sedimentation will occur.

Page 3 of RP -
There are no streambed channels onsite. The head-end of the culvert draining the pond/wetland will be check for debris and blockage during quarrying activities, as part of the winter site closer, and routinely throughout the year.

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

Page 4 of RP -

Following termination of HCDPW operations of the site, it is the intent of the landowner to utilize the site as a borrow operations relevant to forestry activities.

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

Page 15 of RP -
The Statement of Responsibility follows County accepted form and content for such acknowledgments.

A cost estimate prepared by a qualified individual for financial assurances to ensure reclamation is performed in accordance with the reclamation plan.

Page 4 of RP -
A Cost estimate was provided with the reapplication and will be updated yearly consistent with SMARA. Financial Assurances to ensure reclamation is performed in accordance with the approved reclamation plan shall be entered into with the County of Humboldt and the Department of Conservation per PRC Section 2773.1.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Zoning Administrator does hereby:

- Adopt the findings set forth in this resolution; and
- Approves the Bald Hills Road Quarry #2 Conditional Use/Mining Permit and Reclamation Plan for a 15-year term.

Adopted after review and consideration of all the evidence on **August 21, 2025.**

I, John H. Ford, Zoning Administrator of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above-entitled matter by said Zoning Administrator at a meeting held on the date noted above.

John H. Ford, Director,
Planning and Building Department

ATTACHMENT 1A
CONDITIONS OF APPROVAL

APPROVAL OF THE SURFACE MINING PERMIT, CONDITIONAL USE PERMIT, AND RECLAMATION PLAN IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS:

A. <u>Conditions of Approval:</u>

1. Financial Assurances to ensure reclamation is performed in accordance with the approved reclamation plan shall be entered into with the County of Humboldt and the Department of Conservation per PRC Section 2773.1.

2. Within one year from the date of approval, which is August 21, 2026, the applicant shall provide evidence of the following, as discussed during the site visit with DPW and CDFW on April 28, 2025, to Humboldt County Planning and Building Department:

    a. the old cattle guard and another small piece of debris have been moved to another storage location; and

    b. the existing boulders have been moved a little farther away from the edge of the pond (approximately 25') to clearly mark the edge of the parking/turnaround area (larger boulders might serve as a better visual reminder).

3. The terms of the Conditional Use/Surface Mining Permit and Reclamation Plan shall be fifteen (15) years and shall expire on August 21, 2040. The applicant may renew the use permit and/or reclamation plan by submitting appropriate forms and fees prior to expiration in effect at the time of renewal.

4. The applicant shall submit a "wet signed" statement naming the person or persons who accept responsibility for reclaiming the mined lands in accordance with the approved reclamation plan and PRC Section 2772.

5. The applicant shall reimburse the Planning Division for any processing costs that exceed the application deposit.

6. If applicable, pursuant to the California Code of Regulations Section 3697, the owner or operator of a newly-permitted operation shall submit an initial report and reporting fee to the Department of Conservation (DOC) after permit

approval. The DOC has developed the New Mining Operation Report form; please contact DOC at (916) 323-9198 to obtain a form. The condition shall be satisfied by submitting to the County the completed yellow Lead Agency copy of the New Mining Operation Report form.

7. The project shall comply with the requirements of the US Army Corps of Engineers, NOAA Fisheries, US Department of Fish and Wildlife, California Department of Fish and Game, CALFire, North Coast Air Quality Management District and other County, State and Federal agencies having jurisdiction, and shall submit written documentation to Community Development Services that the clearances from agencies have been obtained.

8. The applicant shall record a *Notice of Reclamation Plan Approval* for the approved reclamation plan at the Humboldt County Recorder's Office in accordance and PRC Section 2772.7.

9. The project shall be consistent with all mitigation measures as identified in the Mitigated Negative Declaration and Subsequent Mitigated Negative Declaration.

10. The project shall be consistent with the Streamside Management Area Ordinance and with the standards and policies set forth in the General Plan, *Sensitive and Critical Habitats.* Furthermore, no debris, soil, silt, or other such foreign substance shall be allowed to enter into or be placed where it may be washed by rainfall or runoff into waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area.

B. <u>Operation Restrictions</u>

1. The mining operator shall adhere to the approved reclamation plan and mitigation monitoring program, as applied to the mining extraction site proper, and other support and ancillary uses and facilities (i.e., stockpiles, and the maintenance of access road drainage culverts). This shall include the operations included herein setting forth routine (i.e., non-emergency) days and hours of operations. The reclamation plan shall be reviewed annually by the operator and county staff to assure that any required reclamation is completed and is in compliance with the approved reclamation plan. Any substantial changes to the reclamation plan, including changes necessitated or required by changes in the environment, may require review by the Division of Mines and Geology,

Reclamation Program, and approval by the County.

2. The applicants/operators shall abide at all times with the Humboldt County Surface Mining Regulations, and any revisions thereto, and the State Surface Mining and Reclamation Act, and any revisions thereto.

3. The operator shall be responsible for submitting to the State Department of Conservation, on forms provided by the State Department of Conservation, an annual report per PRC Section 2207.

4. Hauling along public roads shall be limited to "legal loads" only. "Overweight loads" must have prior approval from the Department of Public Works and/or CalTrans.

5. Any and all portable toilet facilities shall be adequately maintained by a licensed septic tank pumper to the satisfaction of the County Department of Environmental Health.

6. All surface mining operations involving unpaved roads shall adhere to the provisions for control of dust emissions from roads.

7. The operator shall maintain erosion control and sedimentation measures as described in the Reclamation Plan and Addendum to thereto.

8. The floor of the working and staging areas shall slope ·a minimum of 2% into the working face to contain runoff water on site.

9. No new access roads shall be constructed without prior approvals.

10. No riparian vegetation shall be removed without prior approvals

11. Hours of Operations shall typically be Monday through Friday 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 preapproved by the Planning Department.

12. Wet weather operations shall be consistent with the Storm Water Pollution Prevention Plan. No equipment shall be allowed on winterized portions of the site during wet conditions to the satisfaction of the California Department of

Fish and Game.

13. Blasting, if applicable, shall be restricted between the hours 8:00 am to 5:00 pm, Monday through Friday, with no blasting on Saturday. The applicant shall be responsible for providing 24-hour advance notice of any blasting to all interested parties who have previously requested, in writing, such advance notice.

14. Operations shall be consistent with noise standards. Operational noise levels and particulate settlement patterns shall be measured by the applicant on demand by the County Planning Director, as necessary, to verify that the project is operating at environmentally acceptable levels per Humboldt County Code.

15. The project shall comply with the requirements of the US Army Corps of Engineers, NOAA Fisheries, US Department of Fish and Wildlife, California Department of Fish and Game, North Coast Air Quality Management District, and other County, State and Federal agencies having jurisdiction, and shall submit written documentation to Community Development Services that the clearances from agencies have been obtained.

16. Operations shall be consistent with the Project Description, Plan of Operations and Reclamation Plan for the Bald Hills Road Quarry #2.

17. The applicants shall secure and abide by all permits and agreements necessary for quarry operations.

C. Informational Notes:

1. Surface mining operations are regulated by various different state and federal agencies. Each of these agencies is responsible for regulating a specific aspect of the mining operation. For example, the Department of Fish and Game is responsible for assuring that fish and wildlife resources are not negatively impacted by a surface mining operation; the Army Corps of Engineers is responsible for regulating discharges into navigable waters of the United States; the Regional Water Control Board oversees waste discharge requirements; CalTrans assures that no State bridges or highways are negatively affected by mining operations, and; the State Lands Commission regulates activities on lands within the public trust. Other agencies which may have jurisdiction over a surface mining operation include but are not limited to, California Department of

Conservation, Division of Mines & Geology; North Coast Unified Air Quality Management District; California Coastal Commission; National Marine Fisheries; United States Fish & Wildlife Service; and CalOSHA.

The operator is responsible for contacting all of the above regulating agencies to assure conformance by the surface mining operation with these agencies' regulations.

2. The Financial Assurance shall be subject to annual review and adjustments to account for: a) changes in the costs of reclamation due to inflation; b) lands reclaimed in the previous year and not involving future reclamation; and c) additional lands requiring reclamation in the next year.

3. Building permits are required for all equipment structural pads/foundation buildings, and all structural concrete work (i.e. scales) that are not pre-existing.

4. A National Pollution Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction Activity is required unless the applicant demonstrates that there is no storm water runoff from the quarry site. If there are such discharges the applicant shall contact the Regional Water Quality Control Board for permitting requirements.

5. If the project involves the storage and handling of hazardous materials, the applicant shall submit and have approved by the Division of Environmental Health (DEH) a hazardous materials business plan and comply with the conditions of DEH.

PLAN OF OPERATION

APPROVED
AUG 21 2025
Humboldt County
PLANNING

BALD HILLS #2 QUARRY
(Humboldt County)
(Updated 3/4/2025)

INTRODUCTION

The purpose of this project is to continue quarrying, crushing/sorting, and stockpiling of aggregate at the Bald Hills #2 Quarry for Humboldt County Department of Public Works (HCPW) road maintenance and road repair projects. This permit application proposes extraction of a total 15,000-yd^3 of aggregate over the life of the permit (15 years). Mining may consist of a single 15,000-yd^3 extraction, or smaller extractions, as frequently as annually, totaling 15,000-yd^3 over 15 years.

LOCATION

The Bald Hills #2 Quarry is located 19 miles southeast of Orick on Bald Hills Road (*Attachment 5). It is in Section 29, Township 9 North, Range 3 East, HB&M and can be seen on the French Camp Ridge 7.5' USGS quadrangle map. The quarry is located on Assessor Parcel #531-022-02.

PAST MINING ACTIVITIES

The surface mining permit issued in 1994 (Permit #CUP-06-93/SMP-06-93) approved the mining of aggregate from an existing rock quarry from 1994 to 2009. HCPW proposed to mine and crush 1,000-yd^3 annually, and up to 2,000-yd^3 every three to five years, for a total of 10,000-yd^3. The estimated total volume of rock contained in the site in 1994 was 35,000-yd^3. The permit was renewed in 2009 for extraction of 15,000 cubic yards over 15 years, consisting of a single extraction or smaller extractions as frequently as annually.

The site had been mined in the past and was already partially developed. A berm was constructed around the project area to contain runoff. A stockpile area was established in the southeast corner. The quarry floor was graded so that water ponds approximately in the center, where it percolates into the ground. A culvert was installed under the access road where an existing seep/pond drains across the site.

The quarry was last mined in 2002. Total volume mined since 1994 is 19,460-yd^3. On-site processing has occurred at least twice since 1994.

At this time the quarry face is approximately 400 ft long x 40-50 ft high.

PROPOSED MINING ACTIVITIES

HCPW proposes quarrying and processing a maximum of 15,000-yd^3 of aggregate over the life of the permit (15 years). Quarrying may consist of a single 15,000-yd^3 extraction, or smaller extractions, as frequently as annually, totaling 15,000-yd^3 over 15 years. Processing, sorting, and stockpiling are included in the proposed activities.

Air Quality & Natural Occurring Asbestos

In 2002 the California Air Resources Board approved an Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations (Final Regulation Order Section 93105). The Bald Hills #2 Quarry is not located in a known ultramafic rock unit and does not appear to contain asbestos, serpentine, or ultramafic rock. If in the event Natural Occurring Asbestos (NOA) is discovered, the North Coast Unified Air Quality Management District will be notified immediately. Stringent dust control measures will be applied during quarrying, processing/sorting, and stockpiling operations and during activities associated with final reclamation. If NOA is discovered within the project site, any areas left exposed will be encapsulated by re-soiling during final reclamation.

The North Coast Unified Air Quality Management District is in non-attainment for Particulate Matter smaller than 10 microns in diameter (PM10) according to State of California Standards. Sources of PM10 in the project vicinity are from road and natural airborne dust, vehicle emissions, and occasionally forest fires.

Dust Suppression

The method of wetting the quarry access road and quarry floor with water (supplied from an offsite source) will be utilized to control fugitive dust. An equipment dust suppression system is utilized during crushing operations. The system includes a large water storage tank located adjacent to the equipment. Offsite water is delivered to the storage tank via the water truck. Refilling is based on demand, typically every 2-3 days. A portable gas-powered pump supplies water to strategically located misters, typically installed at the screen deck and conveyor head-pulleys. Misters may also be utilized on the cone and/or jaw, depending on the volume of dust generated by the material being processed. The on-site pond is not utilized as a water source for dust suppression.

Noise

Ambient noise levels in the quarry vicinity range from 30 to 65 dBA and result from wind, birdcalls, and vehicular traffic on Bald Hills Road. Noise contribution from quarry activities are in the low-80s dBA range, which is typical for this type of activity, with the loudest noise coming from equipment backup horns and the crusher.

Quarrying

The mining method to be used will be consistent with how HCPW has conducted quarrying activities over the past 30 years (1994 and 2009 permit periods). Extraction will be accomplished by ripping and breaking up the rock with a bulldozer. The material will then be pushed into temporary surge piles on the quarry floor for crushing. In the event localized greywacke boulders are encountered, small-scale separation with charges may be performed. Rock extraction will work into the face by ~20 ft. The alignment of the quarry face will remain about the same.

Mining and crushing will be done during daylight hours (sunrise to sunset), primarily on weekdays. The average time period from extraction to stockpiling will be about 4-6 weeks.

Aggregate Processing

A portable crusher assembly, consisting of a jaw and cone crusher, screen desk, conveyors, and a portable generator will be strategically located on the quarry floor. Aggregate from the surge stockpiles will be transported to the crusher via front-end loader. Crushed, sorted aggregate will then be transferred to permanent stockpiles. Once crushing activities are completed, the crusher assembly will be dismantled and removed from the area.

Fueling and Maintenance

Equipment will be inspected for leaks prior to starting the shift, following lunch break, and at end of shift each workday. All fueling, lubing, and equipment maintenance will be performed per a site specific Spill Prevention Control and Countermeasures Plan (SPCC Plan) developed by HCPW Natural Resource Division. The designated staging/storage area for equipment, fuels, lubricants, and solvents will be located downgrade and away from the pond/wetland area. Maintenance involving the removal/repair of hydraulic cylinders/hoses or of reservoirs containing petroleum products will be performed over impervious fabric resistant to petroleum products. A minimum of two sealed 5-gallon spill kits will be kept onsite at all times during quarrying/crushing operations. A minimum of one sealed 5-gallon spill kit will be kept onsite during off-haul activities. All activities related to fueling, lubing, and maintenance will be performed in the designated staging area only. The functional condition of fuel pumps, hose assemblies, and emergency shutoff switches will be evaluated prior to usage. Personnel tasked with fueling will remain near the emergency shutoff switch during fueling operations. Topping off of fuel tanks will not occur. Fuels and lubricants will not be stored onsite. Although not described in this text, a spill response procedure is included in the SPCC Plan. All personnel will be familiar with all aspects of the Plan prior to the startup of quarrying/processing operations.

The gasoline powered water pump used to supply water to the crushing equipment, dust suppression system is situated over a drip pan and is either securely stored or removed from the site at end of shift each workday.

Traffic Control

Traffic control will consist of placing warning signs along Bald Hills Road, several hundred feet in both directions of the quarry entrance. It will not be necessary to detour or otherwise restrict traffic. Minor traffic delays may occur as vehicles slow down when they encounter trucks entering or exiting quarry. Delays will be temporary, ending when extraction and processing activities are completed and trucks/equipment leave the area.

Annual Winterization

Following each extraction, the quarry face will be left with a slope of varying steepness, in some places greater than 1:1 (where there are hard rock outcrops). Each fall, whether the site has been quarried or not, and prior to the first rains, the quarry floor will be finish graded to facilitate stormwater runoff towards the center of the site where it will pond and eventually percolate and/or evaporate into the ground. Where disturbed, the existing containment berm around the outside of the quarry floor will be reconstructed as necessary to eliminate stormwater runoff from exiting the site and draining into the unnamed tributary to Tully Creek ~0.5 miles below the site. The rebuilt sections of the berm will be straw mulched as necessary to reduce offsite, sediment transport of fines associated with that portion of the newly constructed berm.

The head-end of the culvert draining the pond/wetland will be check for debris and blockage during quarrying activities, as part of the winter site closer, and routinely throughout the year.

There will be not structures, temporary or permanent, involved in the project. No equipment will be left onsite following completion of quarrying processing activities. On occasion, temporary storage of road maintenance or snow removal equipment may occur at the site. All equipment involved in these activities will be stored downgrade of the pond/wetland area and will be checked periodically for leaks.

Regular Monitoring and Reporting

Monitoring will consist of regular visual inspections of the quarry by HCPW personnel for slope stability, stormwater management, berm integrity, and maintenance of the drainage culvert. Humboldt County

Planning Division staff will inspect the quarry annually. Reporting will consist of annual reports to the local lead agency and CA Department of Conservation as required by the Surface Mining and Reclamation Act.

INTERIM RECLAMATION

No reclamation has been undertaken for this site, due to the small size, onsite stockpiles, and regular frequent end-haul events. Interim reclamation will occur once the permitted volume of material has been removed from the site. The term interim reclamation is use as it is the intent of the landowner to eventually utilize the site as a borrow operation relevant to forestry activities. The County's interim reclamation activities are described in detail in the Bald Hills #2 Quarry Reclamation Plan (rev-012110) submitted as a supporting document to this Plan of Operations.

FINANCIAL ASSURANCES

The current financial assurance is included as an attachment to the permit renewal packet. No other changes to these amounts are proposed as no changes to the approved Reclamation Plan are proposed.

RECLAMATION PLAN

BALD HILLS #2 QUARRY
(Humboldt County)
February 2010

Prepared by:

Humboldt County Public Works Department
Natural Resources Division
1106 Second Street
Eureka, CA 95501
(707) 445-7741

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OPERATOR

Humboldt County Department of Public Works (HCPW)
1106 Second Street
Eureka, CA 95501

OWNER/SURFACE RIGHTS

Green Diamond Resource Company
P.O. Box 68
Korbel, CA 95550-0068

GENERAL MINING OPERATION INFORMATION

Mined Mineral Commodity

Gravel

Estimated Total Production

15,000-yd^3 over 15 years. Mining may consist of a single 15,000-yd^3 extraction, or smaller extractions as frequently as annually, totaling 15,000-yd^3 over 15 years.

Total Acres to be Disturbed

2.8 acres

Total Acres to be Reclaimed

2.5 acres

Maximum Anticipated Depth of Mining

70 feet (ft)

Date of Start Up

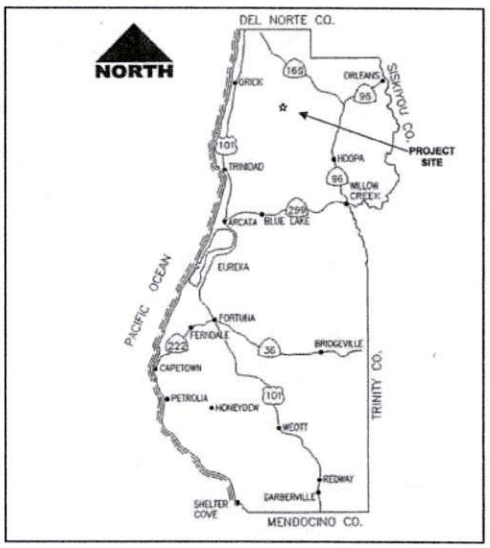
In use since before 1994

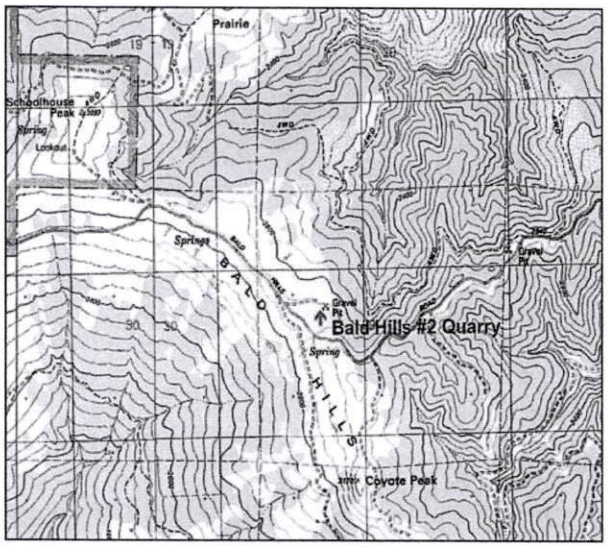
Estimated Date of Closure

2024 2040

LOCATION

The Bald Hills #2 Quarry is located 19 miles southeast of Orick on Bald Hills Road. It is in Section 29, Township 9 North, Range 3 East, H.B.&M. and can be seen on the French Camp Ridge 7.5' USGS quadrangle map. The quarry is located on Assessor Parcel #531-022-02.



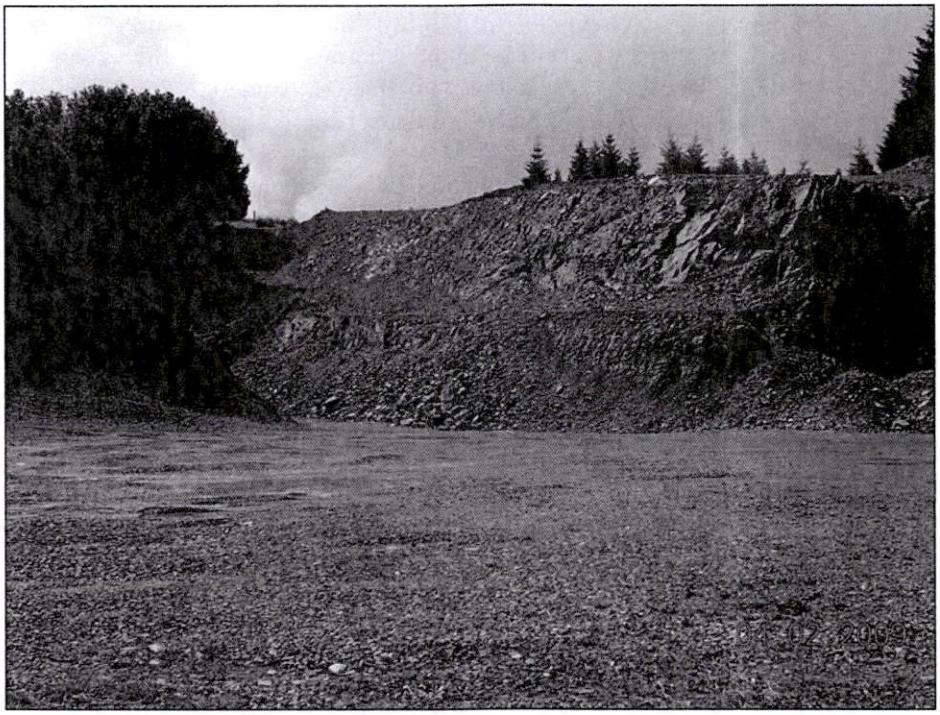


SITE DESCRIPTION

The Bald Hills #2 quarry lies at an elevation of approximately 2,900 ft near the top of a north facing ridgeline in the Klamath River watershed. The site is in an area of moderately steep, rolling terrain with good drainage and a mix of open prairie and oak-fir forest.

There is a seep near the base of the hillside immediately west of the face, which has formed a ponded wetland. The pond drains via a sedge-lined ditch north, under the access road and down to a grassy swale north of the project area.

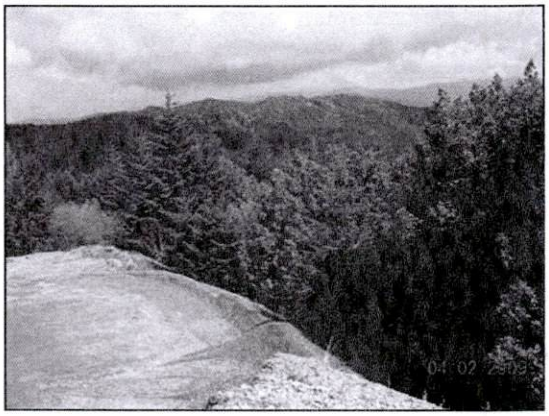
The quarry was developed from a naturally occurring rock outcrop. Operations from 1994-2008 removed 19,500-yd^3 of rock. Currently, the entire project area is about 2.8 acres; with the quarry floor about one acre in area, and the stockpile 0.5 acres. The quarry face is approximately 400 ft long x 40-50 ft high, with a ramp angling down from the top and a bench about 25 ft from the bottom.

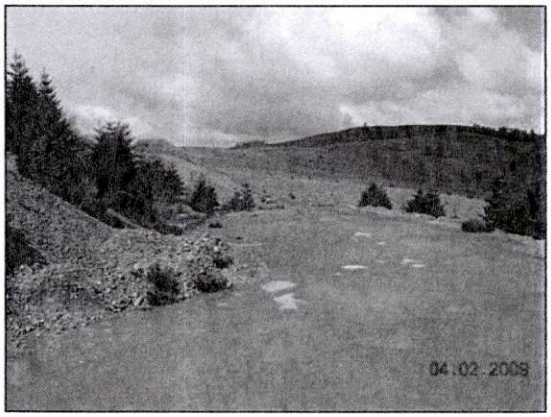


DESCRIPTION OF ENVIRONMENTAL SETTING

Aesthetics

The quarry is located just below the Bald Hills ridgeline and faces north. The quarry face is not visible from Bald Hills Road. Portions of the site are visible from Bald Hills Road, especially the outer edge of the stockpile. The site is also visible from Schoolhouse Peak, within Redwood National Park.





Air Quality & Natural Occurring Asbestos

In 2002 the California Air Resources Board approved an Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations (Final Regulation Order Section 93105). The Bald Hills #2 quarry is not located in a known ultramafic rock unit and does not appear to contain asbestos, serpentine, or ultramafic rock. If in the event naturally occurring asbestos (NOA) is discovered, the North Coast Unified Air Quality Management District will be notified immediately. Stringent dust control measures will be applied during quarrying, processing/sorting, and stockpiling operations and during activities associated with final reclamation. If NOA is discovered within the project site, any areas left exposed will be encapsulated by re-soiling during final reclamation.

The North Coast Unified Air Quality Management District is in non-attainment for Particulate Matter smaller than 10 microns in diameter (PM10) according to State of California Standards. Sources of PM10 in the project vicinity are from road and natural airborne dust, vehicle emissions, and occasionally forest fires.

Biological Resources – Vegetation

There are no species of plants listed by the US Fish & Wildlife Service (USFWS) as threatened or endangered in the French Camp 7.5' quadrangle. The California Natural Diversity Database (CNDDB) contains records for six sensitive plant species [ranked 2.2, 2.3, and 1B.2 by the California Native Plant Society (CNPS)] in the area covered by the French Camp Ridge quadrangle.

Rare/Sensitive Plant Species

SCIENTIFIC NAME	**COMMON NAME**	LISTING STATUS	CNPS RANK
Astragalus umbraticus	Bald Mountain milk-vetch	Fed: None Cal: None	2.3
Coptis laciniata	Oregon goldthread	Fed: None Cal: None	2.2
Erythronium revolutum	Coast fawn lily	Fed: None Cal: None	2.2
Iliamna latibracteata	California globe mallow	Fed: None Cal: None	1B.2 (Fairly threatened in CA)
Piperia candida	White-flowered rein orchid	Fed: None Cal: None	1B.2 (Fairly threatened in CA)
Thermopsis robusta	Robust false lupine	Fed: None Cal: None	1B.2 (Fairly threatened in CA)

(CNDDB 2009)
(1B = Rare, Threatened or Endangered in California and Elsewhere)
(2.X = Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere)

Bald Mountain Milk-Vetch – Bald Mountain milk-vetch can be found in dry open oak and pine woodlands from 650 to 4,000 ft elevation. While Bald Mountain milk-vetch has not been found in the vicinity, the project vicinity contains habitat for the species.

Oregon Goldthread – Oregon goldthread can be found in north coast coniferous forests, in meadows and seeps, and along moist streambanks. The project area contains habitat for Oregon goldthread where the seep ponds and flows under the access road. The project vicinity also contains habitat.

Coast Fawn Lily – Coast fawn lily can be found in bogs, fens, broad-leafed upland forest, and north coast coniferous forest, and has been documented approximately 0.7 miles east of the project area, along a tributary to Tully Creek. Within the project area the pond/wetland constitute habitat for coast fawn lily. There is also habitat in the project vicinity.

California Globe Mallow – California globe mallow can be found in north coast coniferous forests, in seepage areas with silty clay loam soil. It has been documented along Bald Hills Road 0.7 miles east of the quarry. Both the project area (pond/wetland) and vicinity contain habitat for California globe mallow.

White-Flowered Rein Orchid – White-flowered rein orchid can be found in north coast coniferous forest, lower mountain coniferous forest, and broad-leafed upland forest. It prefers serpentine, forest duff, mossy banks, rock outcrops, and muskeg, in elevations ranging from sea level to 4,000 ft. Orchids have not been found near the project. The project area does not contain habitat for white-flowered rein orchids, however there is habitat in the project vicinity.

Robust false lupine – Robust false lupine can be found in north coast coniferous forests and broad-leafed upland forests, on ridge tops and sometimes on serpentine. Robust false lupine has not been documented near the project, however both the project area (hillside above quarry face) and vicinity contain habitat for the lupine.

Biological Resources – Wildlife

The following species of wildlife are listed by USFWS as threatened or are candidates for listing for the French Camp Ridge 7.5' USGS quadrangle.

USFWS Species List for French Camp Ridge Quadrangle

SCIENTIFIC NAME	COMMON NAME	STATUS	CRITICAL HABITAT?
Fish			
Eucyclogobius newberryi	Tidewater Goby	Endangered (1994)	Yes (2000)
Oncorhynchus kisutch	S. OR/N. CA Coho Salmon	Threatened (1997)	Yes (1999)
Oncorhynchus mykiss	Northern California Steelhead	Threatened (2000)	Yes (2005)
Oncorhynchus tshawytscha	CA Coastal Chinook Salmon	Threatened (1999)	Yes (2005)
Birds			
Brachyramphus marmoratus	Marbled murrelet	Threatened (1992)	Yes (1996) Revision Proposed (2006)
Coccyzus americanus	Western yellow-billed cuckoo	Candidate	No
Strix occidentalis caurina	Northern spotted owl	Threatened (1990)	Yes (1992)
Mammals			
Martes pennanti	Fisher, West Coast DPS	Candidate	No

(USFWS 2009)

There is no habitat for the listed fish species in the project area (upland location).

Fisher – The quarry does not contain habitat for fishers, although there is fisher habitat in the vicinity of the quarry (undisturbed late-successional forest with rotting logs or tree cavities for nesting).

Western Yellow-Billed Cuckoo – There is no habitat for western yellow-billed cuckoos in the quarry or vicinity (dens willow and cottonwood stands on river floodplains).

Northern Spotted Owl – The quarry does not contain habitat for northern spotted owls. There is habitat in the vicinity of the quarry (old-growth or mixed-age stands of mature and old-growth trees).

Marbled Murrelet – The quarry and vicinity do not contain habitat for marbled murrelet (old-growth forests with large trees and high canopy closure).

Review of occurrences of rare and sensitive wildlife species recorded in CNDDB (March 2009) for the French Camp Ridge 7.5' USGS quadrangle revealed a total of seven species of birds, mammals, amphibians, and fish.

Rare/Sensitive Wildlife Species
(Habitat in Project Area/Vicinity)

SCIENTIFIC NAME	COMMON NAME	LISTING STATUS
Arborimus pomo	Sonoma tree vole	Fed: None Cal: None
Martes pennanti (pacifica) DPS	Pacific fisher	Fed: Candidate Cal: None
Oncorhynchus clarkii clarkii	coast cutthroat trout	Fed: None Cal: None
Pandion haliaetus	Osprey	Fed: None Cal: None
Plethodon elongates	Del Norte salamander	Fed: None Cal: None
Rana boylii	Foothill yellow-legged frog	Fed: None Cal: None
Rhyacotriton variegates	Southern torrent salamander	Fed: None Cal: None

(CNDDB 2009)

Sonoma Tree Vole – There is no habitat for Sonoma tree vole in the quarry. There is habitat in the quarry vicinity (old-growth and large second growth forests of Douglas fir, redwood, and mountain hardwood-conifer).

Pacific Fisher – There is no fisher habitat in the quarry area. There is habitat for fishers in the quarry vicinity (undisturbed late-successional forest with rotting logs or tree cavities for nesting).

Osprey – There is no habitat for osprey in the quarry area or vicinity (larger good-fish-producing streams and rivers).

Del Norte Salamander – The quarry area contains habitat for Del Norte salamanders in the pond/wetland and outflow. There is also salamander habitat in the quarry vicinity (cool, moist areas with deep litter layer, and near streams).

Foothill Yellow-Legged Frog – The quarry pond/wetland and outflow contains habitat for yellow-legged frogs. There is also habitat in the quarry vicinity (cold, well-shaded permanent streams and seeps).

Southern Torrent Salamander – The quarry pond/wetland and outflow contain habitat for southern torrent salamander. The quarry vicinity also contains habitat for salamanders (cold, well-shaded permanent streams and seeps).

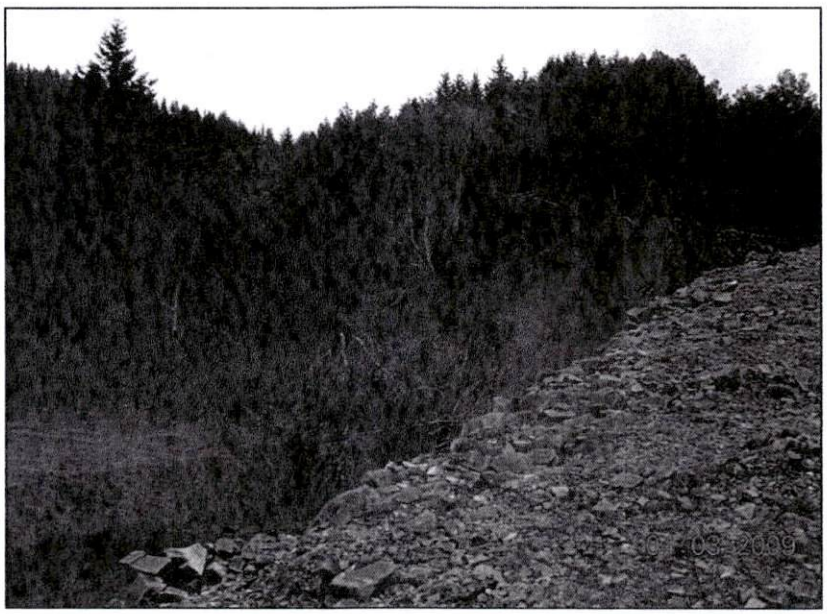
Cultural Resources

There are no known or recorded archaeological or historical sites at the quarry. The Bald Hills Archaeological District (4,310 acres), listed in the National Register of Historical Places, is located within Redwood National Park near the quarry site but does not include the quarry.

Geology

This site lies within a region of Franciscan sandstone made up chiefly of greywacke, interbedded shale, minor conglomerate and thin-bedded chert. It 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 South Fork Mountain Fault (a major east-dipping thrust fault) is about three miles east of the quarry.

There is a west-facing hillside adjacent to the east end of the quarry face that has been subject to slope failure, producing a small landslide several years ago (exact date unknown). The slide area is ~45 ft high and several trees from the top have fallen to the quarry floor.



Soils

Soils at the quarry site are an association of two soil series, Wilder and Kneeland. Soils in the Wilder series have a depth of three to four feet, less than 30% slope, rapid permeability with good to excessive drainage, and high erosion hazard. The soil is sandy and gravelly loam, with parent material of sandstone and high erosion hazard. Wilder soils are highly suitable for timber production but have low to very low suitability for range use. Kneeland series soils are clay loam soils found in hilly to steep areas that have good drainage and moderate erosion hazard. These soils are unsuited for timber production but highly suited for range use.

Noise

Ambient noise levels in the quarry vicinity range from 30 to 65 dBA and result from wind, birdcalls, and vehicular traffic on Bald Hills Road. Noise contribution from quarry activities are in the low-80s dBA range, which is typical for this type of activity, with the loudest noise coming from equipment backup horns and the crusher.

GENERAL LEAD AGENCY INFORMATION

Lead Agency
Humboldt County Community Development Services Department, Planning Division

Staff Contact
Anita Punla, Senior Planner

Phone Number
(707) 445-7541

Address
3015 H Street
Eureka, CA 95501

Use Permit Number
CUP-06-93XM

Date Issued
Pending

Expiration Date
Pending

Financial Assurances
Approved June 2, 2009 (Humboldt County Board of Supervisors), updated annually

*Current 2025 FACE being processed by Lead Agency

DESCRIPTION OF MINING ACTIVITIES

HCPW will mine a maximum of 15,000-yd^3 of rock over the life of the permit (15 years). Mining may consist of a single 15,000-yd^3 extraction, or smaller extractions, as frequently as annually, totaling no more than 15,000-yd^3 over 15 years. Crushing/sorting and stockpiling are included in the mining activities.

Quarrying

The mining method to be used will be consistent with how HCPW has conducted quarrying activities over the past 15 years (1994 permit period). Extraction will be accomplished by ripping and breaking up the rock with a bulldozer. The material will then be pushed into temporary surge piles on the quarry floor for crushing. In the event localized greywacke boulders are encountered, small-scale separation with charges may be performed. Rock extraction will work into the face by ~20 ft. The alignment of the quarry face will remain about the same.

Mining and crushing will be done during daylight hours (sunrise to sunset), primarily on weekdays. The average time period from extraction to stockpiling will be about 4-6 weeks.

Aggregate Processing

A portable crusher assembly, consisting of jaw and cone crushers, screens, conveyors, and a generator trailer will be temporarily located on the quarry floor. Rock from the surge piles will be transported to the crusher via front-end loader. Crushed sorted rock will then be transferred to the permanent stockpile. Once crushing activities are completed, the crusher assembly will be dismantled and removed from the area.

Dust Suppression

The method of wetting the quarry access road and quarry floor with water (supplied from an offsite source) will be utilized to control fugitive dust. An equipment dust suppression system is utilized during crushing operations. The system includes a large water storage tank located adjacent to the equipment. Offsite water is delivered to the storage tank via the water truck. Refilling is based on demand, typically every 2-3 days. A portable gas-powered pump supplies water to strategically located misters, typically installed at the screen deck and conveyor head-pulleys. Misters may also be utilized on the cone and/or jaw, depending on the volume of dust generated by the material being processed.

Annual Winterization

Following each extraction, the quarry face will be left with a slope of varying steepness, in some places greater than 1:1 (where there are hard rock outcrops). Each fall, whether the site has been quarried or not, and prior to the first rains, the quarry floor will be finish graded to facilitate stormwater runoff towards the center of the site where it will pond and eventually percolate and/or evaporate into the ground. Where disturbed, the existing containment berm around the outside of the quarry floor will be reconstructed as necessary to eliminate stormwater runoff from exiting the site and draining into the unnamed tributary to Tully Creek ~0.5 miles below the site. The rebuilt sections of the berm will be straw mulched as necessary to reduce offsite, sediment transport of fines associated with that portion of the newly constructed berm.

Regular Monitoring and Reporting

Monitoring will consist of regular visual inspections of the quarry by HCPW personnel for slope stability, stormwater management, berm integrity, and maintenance of the drainage culvert. Humboldt County

Planning Division staff will inspect the quarry annually. Reporting will consist of annual reports to the local lead agency and CA Department of Conservation as required by the Surface Mining and Reclamation Act.

INTERIM RECLAMATION

No reclamation has been undertaken for this site, due to the small size, onsite stockpiles, and regular frequent end-haul events. Interim reclamation will occur once the permitted volume of material has been removed from the site and is discussed below.

Post Reclamation Land Use

This parcel (#531-022-02) is zoned Timber Production Zone with a Humboldt County General Plan land use designation of Timberland. The property owner was consulted regarding post reclamation land use and has clearly indicated that they intend to continue utilization of the site as a "borrow pit", for aggregate stockpiling, and for equipment and materials storage once HCPW operations are complete. Interim reclamation will take place following termination of HCPW operation of the site. Maintenance and monitoring by HCPW will continue for a maximum of three years unless the landowner begins borrow operations prior to the end of that three-year period. Continued use of the site as a borrow pit is a compatible use on land zoned for timber production.

Continued use as a borrow pit and for equipment/materials storage does not preclude the opportunity of future mining at this site.

Public safety will not be compromised by interim reclamation of this site. The site is not located on public land and public access is blocked. Measures to protect water quality and ensure slope stability are included in the reclamation activities.

Reclamation Activities

Reclamation activities will consist of the following:

1. Re-grade the quarry face to 1H:1V slope (may vary based on slope stability). Benches will occur at 25' intervals.
1. Finish design grading of the quarry floor.
2. Construction and maintenance of containment berm.
3. Protection of wetland and associated seep.
4. Re-seeding with native grasses/shrubs and mulching.
5. Slope stabilization and erosion control.
6. Monitoring

As the landowner intends to continue use of the site, the culvert directing water from the wetland/pond will not be removed and the access road will not be decommissioned.

1 – Re-grading: The quarry face, which will be approximately 70 ft. high, will be maintained at a 1:1 slope, with 15 ft. wide benches at 25 ft. intervals. Due to the height of the final face, an engineered plan of the final slope will be developed and submitted for review by the California Department of Conservation no less than 30-days prior to the start of final reclamation. The quarry floor will be designed to slope gently (±1%) toward a centralized detention area at the center of the quarry floor or near the base of the quarry face, depending on which area has the most effectual rate of percolation.

2 – Containment Berm: The berm around the northern perimeter of the quarry floor will be left intact to contain stormwater runoff and fine sediment (excluding the wetland/pond outflow) onsite. The earthen berm will be seeded with native grasses and straw mulch for strength and to reduce offsite, sediment transport of fines associated with the berm itself.

3 – Protection of Wetland: The wetland/pond and associated seep area will not be included in any re-grading, but will be left in place as originally designed. Final grading will be conducted as to not influence or indirectly affect the wetland or drainage.

4 – Re-vegetation: A seed application consisting of various, suitable species will occur in the fall following re-grading and the first rain. A typical seed mix for initial re-vegetation may include (but is not limited to) the following species:

- ✓ California brome (*Bromus carinatus*)
- ✓ California oatgrass (*Danthonia californica*)
- ✓ Blue wildrye (*Elymus glaucus*)
- ✓ Regreen wheatgrass x wheat hybrid (*Triticum X Elymus*), this is a sterile, temporary cover crop, ideal for aiding in the establishment of native plant communities.

Areas to be seeded include the top of the quarry face, the area between the face and the adjacent slide, along the containment berm, and any other locations where there is sufficient topsoil to root the above-mentioned species. Seed application density will be approximately 50 pounds per acre; however, specific rates will be determined when the seed mix is finalized. Seed application will be by hydroseeding. Mulch and tackifier will be included in the hydroseed mix. Specifications regarding the rate of application, type, depth of mulch, and type of tackifier used will be based on the manufacturer and applicator's recommendation.

In mid-winter, after the initial seed application has sprouted, shrub species will be planted in appropriate locations throughout the area. The location density will be determined in consultation with the property owner and botanist. Potential locations include the top of the quarry face, the area between the face and the adjacent slide, along the containment berm, and other locations where there is sufficient topsoil (20 inches) to root the intended species. Species may include but are not limited to the following:

- ✓ Coyote brush (*Baaccharis pilularis*)
- ✓ Gooseberry (*Ribes spp.*)
- ✓ Lupine (*Lupinus ssp.*)

Shrub species will be planted by hand. Distribution of shrub species may be based on the variety and density of native species in the immediate area. Species especially palatable to grazers and browsers when young will be protected with diamond mesh seedling protection tubes for the first three years.

Re-vegetation success for grass cover will be based on aerial coverage of 80% one year after planting, and 97% two years after planting. Wherever these goals are not met, the area will be evaluated, and subsequent planting/mulching and soil amending will be performed. Re-vegetation success for shrubs will be based on individual plant counts.

5 – Slope Stabilization & Erosion Control: Following final reclamation, erosion control measures will be instituted and maintained for a minimum of three years or until such time as the landowner begins borrow operations. The final slope will be graded at 1:1 with benches at 25 ft. intervals. This grade is anticipated to provide a stable slope for the geology of the site. Re-vegetation via hydroseeding will minimize sediment transport within the site. Stormwater will make its way across the quarry floor per final design

and will dissipate into the ground. The vegetated perimeter berm will eliminate the opportunity for offsite discharge and sediment transport during torrential storm events. Again, this berm will be maintained for a minimum of three years or until the landowner begins borrowing operations

6 – Monitoring: The culvert controls the water surface elevation of the pond and wetland (weiring effect), which in turn assures a stable environment for all wetland species in and surrounding the water body. During the winter months when flows from the source are significant, failure of the culvert could result in erosion of the roadbed adjacent to the culvert and consequently product a sequential drop in water surface elevations. Monitoring for blockage (organic debris) and maintaining the culvert in a functional form year around is of utmost importance.

Frequently monitor that the access gate is kept closed and lock to protect the pond/wetland from livestock and large game animals.

Frequently monitor the earthen berm for integrity to guard against offsite discharge of stormwater and sediment during significant storm events.

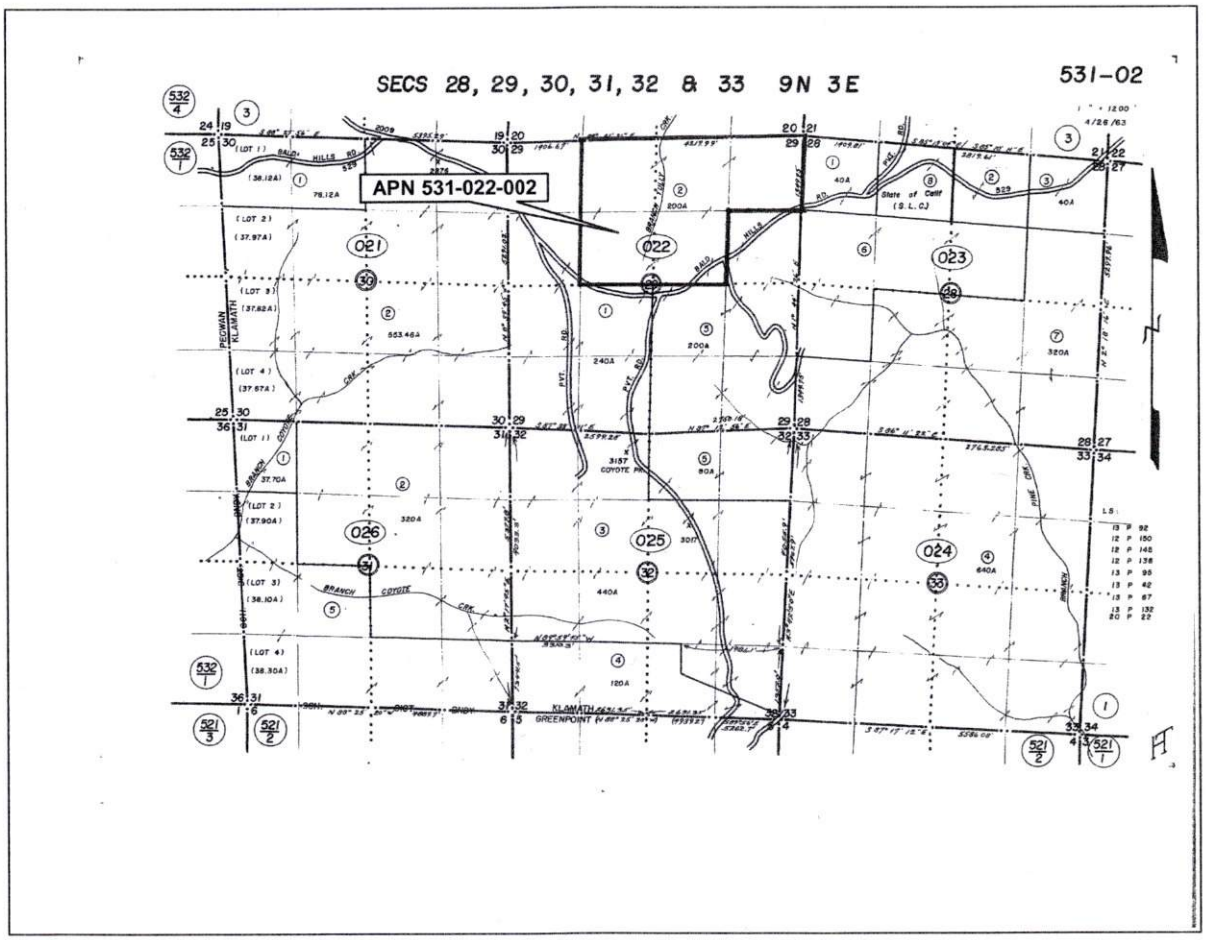
Tailing and Mine Waste Management

Due to the geological characteristics of the soil (discussed on Pg. 9) and the exposed nature of the quarried material, very little overburden exists. The result is a high percentage of usable material with a minimum amount of natural fines. Therefore, all material quarried from the site is blended and utilized, resulting in no production of tailing or mine waste.

Closure of Surface Openings

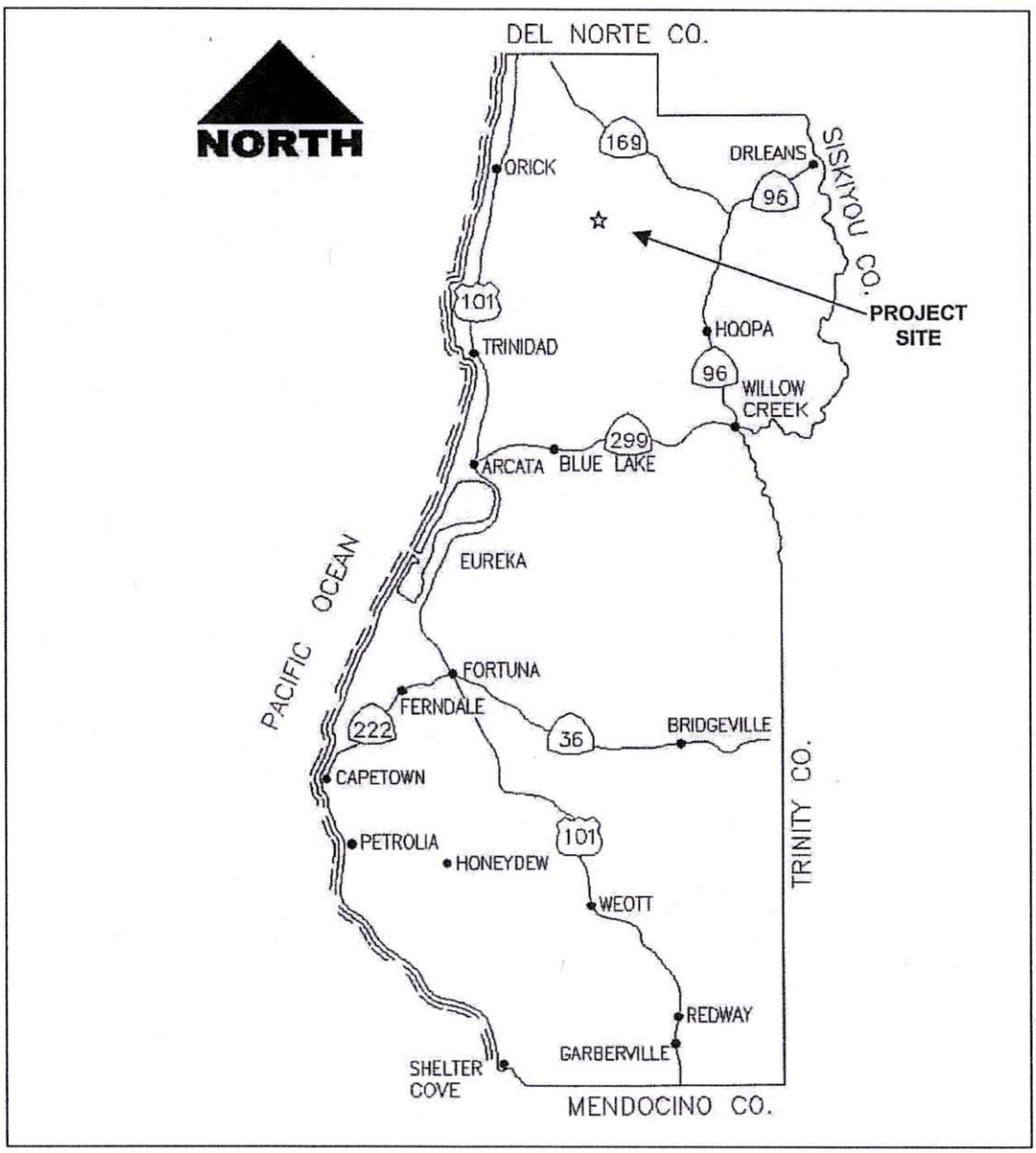
This is a surface mining operation with no openings to underground workings. Closure will include a substantial berm being formed along the base of the quarry face to minimize the chance of damage to vehicles, or injury to people, cattle, or large game animals as the result of falling rock.

ATTACHMENT 1 – Assessors Parcel Map

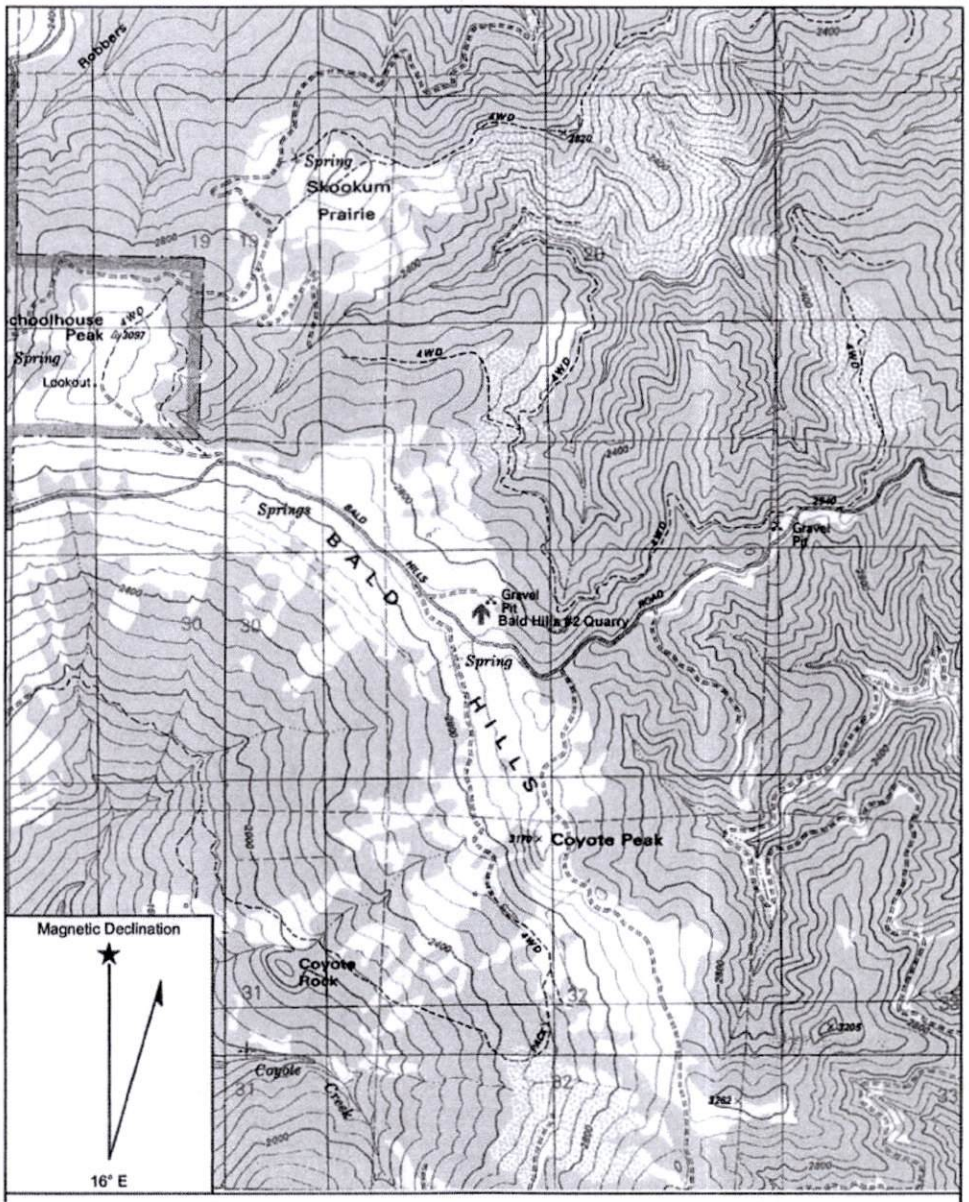


ATTACHMENT 2 – Location Map

Bald Hills #2 Quarry



ATTACHMENT 3 – Vicinity Map



Name: FRENCH CAMP RIDGE
Date: 2/4/2010
Scale: 1 inch equals 2000 feet

Location: 041° 08' 34.25" N 123° 51' 45.38" W NAD 83
Caption: Bald Hills #2 Quarry
(Humboldt County Public Works

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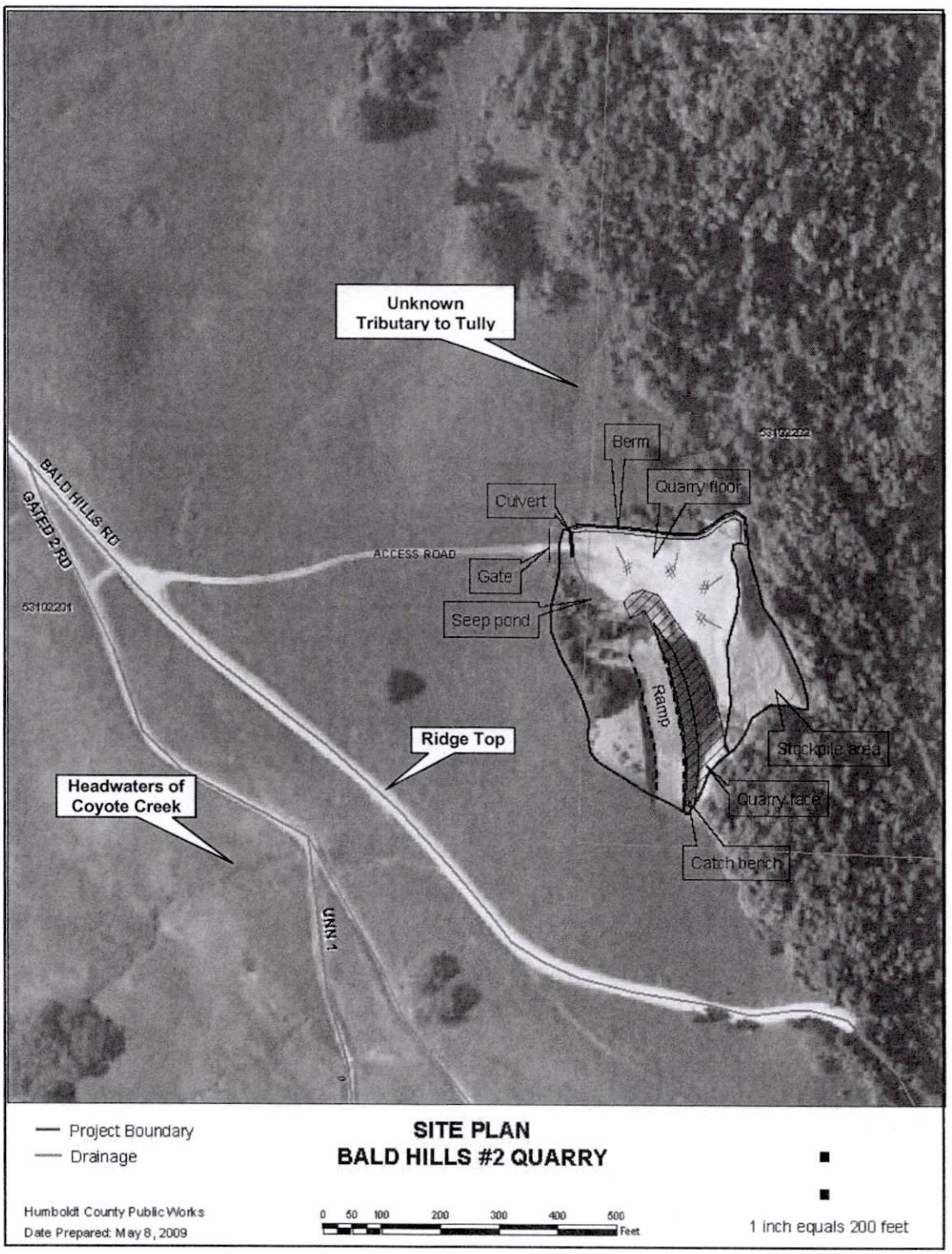
ATTACHMENT 4 – Site Map



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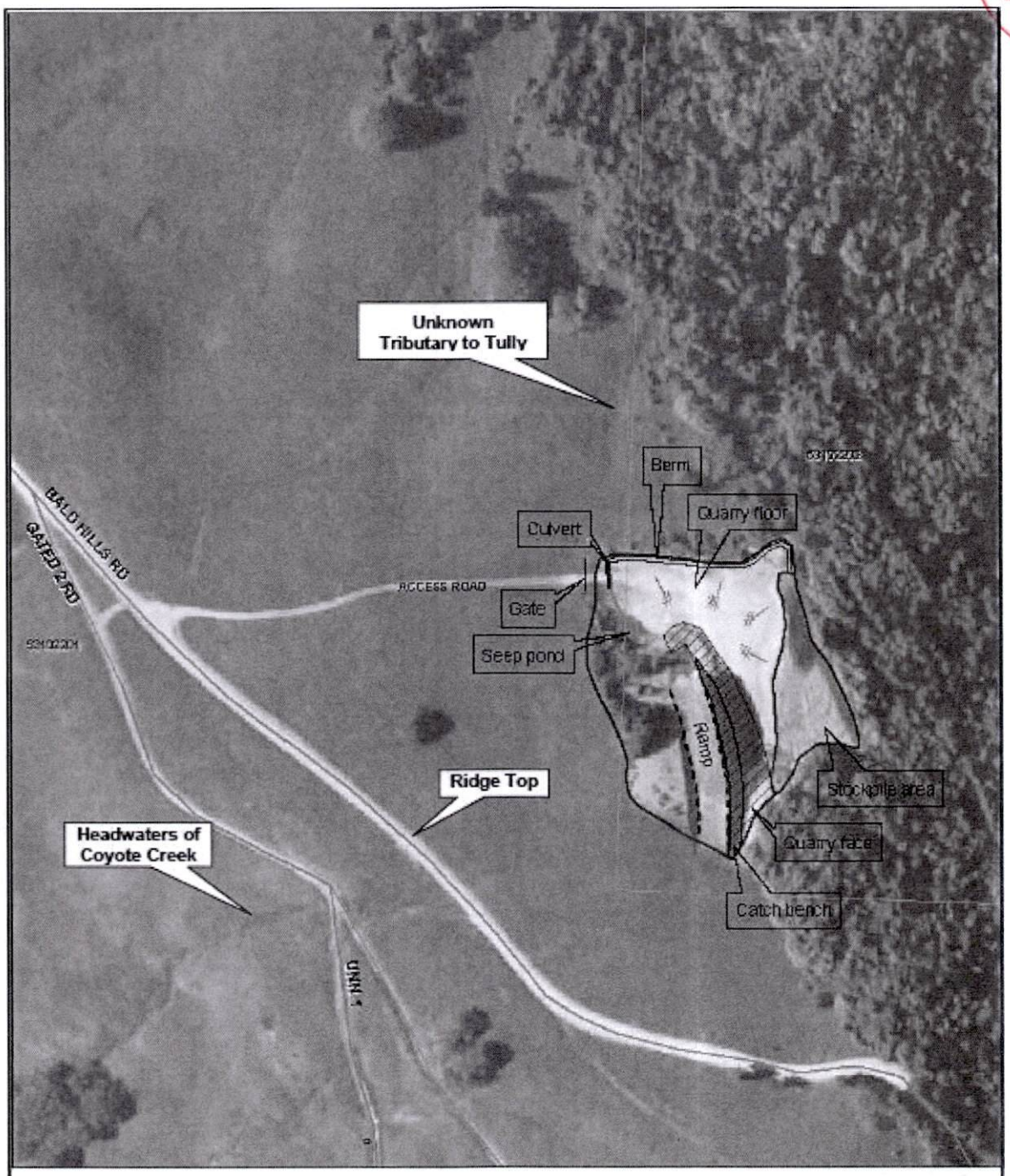
AUG 21 2025
Humboldt County
PLANNING



Project Boundary
Drainage

SITE PLAN
BALD HILLS #2 QUARRY

Humboldt County Public Works
Date Prepared: May 8, 2009

0 60 100 200 300 400 500 Feet

1 inch equals 200 feet