NEVADA COUNTY
MINERAL EXPLORATION AND/OR EXTRACTION
ENVIRONMENTAL ASSESSMENT
PLEASE TYPE OR PRINT IN BLACK INK

MINING:  x  EXPLORATION: ___  FILE NOs.: ____________________________

ASSESSOR'S PARCEL NO(S).:  38-430-02, 38-370-17, 38-380-15, and 38-380-16

APPLICANT:  Hansen Bros. Enterprises  PHONE NO.:  (530) 273-3381

CONTACT PERSON:  Jeff Hansen  PHONE NO:  (530) 913-3935

EMAIL:  jhansen@gohbe.com

This Environmental Assessment provides information required for the processing of your application. Incorrect or incomplete information may cause a delay in processing. This form should be completed by the applicant, or his/her authorized representative. It may be reproduced by the applicant in order to provide expanded responses. Appropriate exhibits should be submitted to supplement written descriptions and responses.

Pursuant to Nevada County General Plan policy and Land Use & Development Code Section L-II 4.3, an Archaeological Survey and a Biological Inventory of the site must be prepared for the project, pursuant to established procedures (attached):

A. EXISTING CONDITIONS:

1. Describe the existing natural features of the subject property, including topography, vegetation, drainage, year around streams, bodies of water. (attach exhibits)

   The proposed sand and gravel harvesting area is located within the Greenhorn Creek watershed, approximately 4.5 miles upstream from Rollins Reservoir. The sand and gravel deposit is located in a creek bed with steep canyon slopes. The vegetation on the canyon slopes includes pine trees, oak trees, and brush. Vegetation on the deposit is minimal or non-existent in most areas. The deposit consists of sand, gravel, and possibly other minerals lying in the bed of greenhorn Creek. Major storms loosen sand and gravel from the old creek bed and wash it into Greenhorn Creek. It drops out of the storm water flow onto the Greenhorn stream bed in places where the gradient is relatively flat.

2. Describe the existing man-made features of the subject property, including buildings, roads, wells, septic systems, etc.: (Attach exhibits)

   There are no man-made features within the proposed operation area with the exception of the deposit (diggings) and Red Dog Road, which crosses the Creek via a ford north of a.p.n. 38-380-15 and south of a.p.n. 380-370-17.

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3. Describe surrounding land uses and distances within the vicinity of the subject property, distances of the surrounding land uses, and environmental character of the surroundings. (aerial photos would be most helpful)

**Be specific.** (Example: five, single-family residences, 500 feet to the north; a duplex 200 feet, and a pine forest adjacent to the west; a state highway and gas station 200 feet to the east; and grazing land immediately to the south.) **Attach exhibits.**

The land use of the majority of land adjacent to the proposed excavation area is either existing HBE mining area or timber/forest land, some of which has been harvested. The Tahoe National Forest boundary is located immediately adjacent to the northeast boundary of the proposed excavation area. The Blue Lead Mine is located approximately 500 feet east and four residences are between 1,200 and 2,400 feet from the proposed excavation area. See the Surrounding Land Use Map in Appendix A.

**B. PROJECT FEATURES:**

1. Mineral(s) to be explored and/or mined: Sand, Gravel, Precious Metals (if any).

<table>
<thead>
<tr>
<th>2a. Mining method(s)</th>
<th>2b. Exploration method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Check all applicable:</td>
<td>b. Check all applicable:</td>
</tr>
<tr>
<td>( ) Open Pit</td>
<td>1) Test Trenches</td>
</tr>
<tr>
<td>( ) Hilltop Quarry</td>
<td>( ) Backhoe</td>
</tr>
<tr>
<td>( ) Sidehill Quarry</td>
<td>( ) Tractor</td>
</tr>
<tr>
<td>( ) Low Level Quarry</td>
<td>( ) Other (specify)</td>
</tr>
<tr>
<td>(x) Gravel/Sand Pit</td>
<td>2) Drilling</td>
</tr>
<tr>
<td>(x) Gravel Bar Skimming</td>
<td>( ) Rotary</td>
</tr>
<tr>
<td>( ) Clay Pit</td>
<td>( ) Core</td>
</tr>
<tr>
<td>( ) Borrow Pit</td>
<td>( ) Wagon Drill</td>
</tr>
<tr>
<td>(x) Single Bench</td>
<td>( ) Other (specify)</td>
</tr>
<tr>
<td>(x) Multiple Bench</td>
<td>3) Seismic</td>
</tr>
<tr>
<td>( ) Underground</td>
<td>( ) Explosives</td>
</tr>
<tr>
<td>(x) Mechanical Excavation/</td>
<td>( ) Non-explosives</td>
</tr>
<tr>
<td>Harvesting</td>
<td>4) Dredging</td>
</tr>
<tr>
<td>( ) Drill and Blast</td>
<td>5) Sluicing</td>
</tr>
<tr>
<td>(x) Shovel</td>
<td>6) Other (specify)</td>
</tr>
<tr>
<td>(x) Dragline</td>
<td></td>
</tr>
<tr>
<td>( ) Waste Dump</td>
<td></td>
</tr>
<tr>
<td>( ) Tailing Ponds</td>
<td></td>
</tr>
<tr>
<td>(x) Truck to Processing Plant</td>
<td></td>
</tr>
</tbody>
</table>

* Gravel Benches - Not Hard Rock

**Volume:**

- ( ) Conveyor to Processing Plant
- ( ) Rail Transport
- ( ) Slurry Pipelines
- (x) Other (specify)

Scraper haul to processing plant; Loader; Excavator; Dozer

**Estimate total sample volume:**

(in tons and cubic yards)

**Depth of Sampling:**

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3. Describe the mineral recovery or exploratory process: (type of chemicals, method, size and type of crushing equipment, etc.)

Mineral recovery will be accomplished by harvesting equipment that may include: scrapers; excavators, loaders haul trucks, water trucks, dozers, and graders. No processing, crushing, or chemicals are proposed for the excavation area. Harvested material will be transported to the existing processing plant located downstream.

4. If processing of ore or concentrate is done on-site, describe the treatment process: (type of chemicals, method, size, and type of equipment) If not, explain where processing will take place and method of transport:

No processing will occur in the proposed harvest expansion area. Sand and Gravel will be hauled to the existing plant located downstream in Section 2, Township 15 North, Range 9 East, M.D.B.&M for screening, crushing, washing, and aggregate product sales.

5. Is the proposal on an existing and/or historic mine site?

(*) Yes ( ) No  If Yes, describe briefly: (specify existing, historic, or both)

The property has been mined (mining claims).

6. Geologic description, including general geologic setting, with more detailed geologic description of the mineral deposit to be explored or mined, and principal minerals or rock types present:

Soil within the proposed excavation area consists of placer diggings, placer digging fragments, and other minor components. Soil adjacent to the harvest area will not be impacted and includes Josephine-Mariposa and Mariposa-Maymen complex soils. For additional information, the United State Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) soil report is included in Appendix H.

7. Will there be any potentially hazardous materials, such as toxic substances, flammables, or explosives used or stored at the site?

( ) Yes  (*) No  If Yes, describe method of use, storage and disposal:

8. **Estimated number of employees**

<table>
<thead>
<tr>
<th>Exploration Phase: N/A</th>
<th>Mine Operation 1. 1-5*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reclamation Phase: 1-5*</td>
<td>Phase: 2. N/A</td>
</tr>
<tr>
<td>Construction Phase: N/A</td>
<td>Phase: 3. N/A</td>
</tr>
</tbody>
</table>

*This application proposes to expand the existing operation and therefore the employees from the existing operation would be relocated to the expansion area. Additional employees are not anticipated.

Revised October, 2001
9. **Estimated Time Frames**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Begin</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploration:</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Construction:</td>
<td>N/A</td>
<td>2015/A.S.A.P</td>
</tr>
<tr>
<td>Mine Operation:</td>
<td>2015/A.S.A.P</td>
<td>When deposit is depleted*</td>
</tr>
<tr>
<td>Reclamation:</td>
<td></td>
<td>When deposit is depleted*</td>
</tr>
</tbody>
</table>

*The schedule is dependant upon the market and the weather. As the deposit is excavated, storms bring additional sand and gravel downstream, into the harvest area. Minimum time: 60-100 years.

10a. **Mine Operation Time Periods**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Operating Hours</th>
<th>Days of the week</th>
<th>Total Time Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Construction:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blasting:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overburden Removal:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Off-Site Hauling: (to plant)</td>
<td>7:00am to 6:00pm</td>
<td>Mon.-Fri.</td>
<td></td>
</tr>
<tr>
<td>Ore Extraction:</td>
<td>7:00am to 6:00pm</td>
<td>Mon.-Fri.</td>
<td></td>
</tr>
<tr>
<td>Crushing/processing:</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reclamation:</td>
<td>7:00am to 6:00pm</td>
<td>Mon.-Fri.</td>
<td></td>
</tr>
<tr>
<td>Other (Specify):</td>
<td>Maintenance of equipment could occur at any time</td>
<td></td>
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</tr>
</tbody>
</table>

b. **Exploration Activities:**

Operating Hours: N/A

Days of the Week: __________________________

Length of Operation: __________________________

11. **Anticipated annual production:** (include all mined materials such as overburden waste rock ore, etc.)

*+/200,000 to 600,000 tons per year depending on the market and weather (these figures refer to the entire operation at Greenhorn Creek, not just the proposed expansion area) and could vary substantially.*
12. **Total life cycle production:**

A. Mine waste returned to pit or harvest area: **None** tons or yd$^3$
B. Aggregate/crushed rock to off-site uses: **N/A** tons or yd$^3$
C. Fill material imported for on-site disposal: **None** tons or yd$^3$
D. Mine waste disposed off-site: **None** tons or yd$^3$
E. Total volume of material to be explored: **N/A** tons or yd$^3$
D. What is ratio of tons: yd$^3$ of material being mined? **1.4-1.8 tons/cubic yard**

13. **Ground Water:**

A. Ground water depth: **0-40** feet
B. Maximum shaft/tunnel/pit depth: **N/A** feet
C. Estimated daily/annual quantity of water pumped for de-watering: **0** gallons

14. Maximum amount of surface disturbance, including drill pads, trenching, access roads, etc.: **+/-38** acres

15. If the nature of the deposit and the exploration and/or mining method used will permit, describe and show the steps or phases of the mining operation that allow concurrent reclamation, and include proposed time schedule for such concurrent activities. If the nature of the deposit and/or mining method does not allow concurrent (annual) reclamation, explain why.

Final reclamation will not take place until nearly all sand and gravel has been removed, including upstream replenishment of the deposit. In the interim, as the level of the deposit in the canyon drops and exposes canyon walls, natural seeding is expected to revegetate exposed areas. If natural revegetation does not occur, planting of appropriate species will be initiated.

16. Describe the ultimate physical condition of the site and specify proposed use(s), or potential uses, of the mined lands as reclaimed:

The ultimate physical condition will be a natural streambed with riparian plants along the edges of the stream and other species outside of the area that experiences frequent flooding. There are no proposed or potential uses for the area as this location is a natural streambed with a sand and gravel deposit.
C. ENVIRONMENTAL IMPACTS:

1. Land

   a. How many cubic yards will be moved or disturbed? 2 million, plus material carried downstream.

   b. Will the Project result in the destruction, covering or modification of any unique geological and/or physical features, such as unstable soils or historical faults?
   ( ) Yes  (x) No  If Yes, what protective measures are anticipated?

   c. Will the project result in increased erosion from wind or water, on-site or off-site?
   ( ) Yes  (x) No  If Yes, explain:

   The operation exists to remove sand and gravel that are transported downstream which is a product of erosion and hydraulic mining.

   d. Will the project expose the people or property to geologic hazards, such as earthquakes, landslides, mud slides, ground failures, or similar hazards?
   ( ) Yes  (x) No  If Yes, explain:

   e. Will the project result in the loss of agricultural lands?
   ( ) Yes  (x) No  If Yes, specify:

   f. Is all or a portion of this property subject to a Williamson Land Act Contract (i.e., an agricultural preserve)?
   ( ) Yes  (x) No  If Yes, specify:

   g. Is all or a portion of this property zoned TPZ?  
   ( ) Yes  (x) No

   If Yes, attach exhibit and copy of timber management plan.

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2. **Water:**

a. Will the project result in any stream alteration?  
   \(\text{\(\times\)}\) Yes  \(\text{(}\) No

   For operations occurring within or adjacent to a seasonal or permanent stream, river or other body of water, describe actions being taken to protect water quality and wildlife habitat:

   The proposed operation consists of harvesting aggregate from a dry streambed by mechanical means. With the exception of stream diversions, no work is proposed to occur in the water. Additional details are available in the Streambed Alteration Agreement issued by the California Department of Fish and Wildlife.

b. Will there be any increased run-off?  \(\text{(}\) Yes  \(\text{\(\times\)}\) No

   Explain:

   

   

   

c. Will there be any discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?  
   \(\text{\(\times\)}\) Yes  \(\text{(}\) No

   If Yes, explain:

   The Streambed Alteration Agreement authorizes the installation of sandbags or gravel berms to divert the stream and also authorizes occasional equipment stream crossings; both of which could cause short term alterations of surface water quality.

d. Will there be any septic tank installation, sedimentation or potential chemical contamination? Indicate amount of effluent which may be generated. Percolation tests should be provided.  
   \(\text{\(\times\)}\) Yes  \(\text{(}\) No

   If Yes, explain:

   

   

   

e. Industrial water requirements:

   Amount required per day:  \text{None}^*

   Source:  \text{N/A}

   Will water be recirculated for re-use?  
   \(\text{\(\times\)}\) Yes  \(\text{(}\) No

   *Industrial water is used at the downstream plant but will not be needed in the expansion area.
f. Will there be any changes in the quantity of ground waters, either through direct additions or withdrawals, or through interception of any aquifer, by cuts or excavations? ( ) Yes  (x) No  If Yes, explain and describe method to monitor effects:

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

g. Will there be a substantial reduction in the amount of water, otherwise available for public water supplies?  ( ) Yes  (x) No  If Yes, explain:

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

h. Will the project expose people or property to water-related hazards, such as flooding or ground slippage?  ( ) Yes  (x) No  If Yes, explain:

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

i. Will there be any significant changes in temperature, flow, or chemical content of surface thermal springs?  ( ) Yes (x) No  If Yes, explain:

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

3. **Air and Noise**

a. Will there be any changes in air movement, temperature, dust, ash, smoke, fumes or odor as a result of the project?  (x) Yes ( ) No  If Yes, explain:

Dust could emanate from the harvesting operation but the facility operates a water truck for dust suppression if necessary. The water source for the water truck is a well located at the downstream plant. Additionally, the excavated material is occasionally slightly damp.

b. Method of dust control: (specify water or chemicals to be used, and frequency of application)

Haul routes will be watered with a water truck if needed. Chemicals will not be used.

Water for dust control could range from 10,000-20,000 gallons per day. The source for the water is Greenhorn Creek.

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c. Will the project result in a change in existing noise or vibration (due to blasting or use of heavy earth moving or breaking equipment) levels in the vicinity?

(×) Yes  ( ) No  If Yes, explain:
Mechanical equipment will be used to harvest gravel and haul it to the plant. The noise increase would be minimal provided that this application is for the expansion into adjacent areas of an existing operation. See prior noise study in Appendix E.

d. What types of noise will be created by the project both during and after construction?
Noise will be generated from the equipment used to harvest and haul material. Noise will be similar
to the existing operation but located in the proposed, adjacent harvest areas.

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e. Determine average noise levels (Leq)* at the property line ** for three time periods: Day (7:00 am to 7:00 pm); Evening (7:00 pm to 10:00 pm); and Night (10:00 pm to 7:00 am) in dBA.
Exploratory: N/A  Mining: x

<table>
<thead>
<tr>
<th></th>
<th>Existing (Pre-Project)</th>
<th>Construction</th>
<th>Operational</th>
<th>Reclamation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day</td>
<td>37(m) dBA</td>
<td>N/A (m) dBA</td>
<td>(m) dBA</td>
<td>(m) dBA</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>52(e) dBA</td>
<td>52(e) dBA</td>
</tr>
<tr>
<td>Evening</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>37(e) dBA</td>
<td>N/A (e) dBA</td>
<td>(e) dBA</td>
<td>(e) dBA</td>
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<tr>
<td>Night</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>37(e) dBA</td>
<td>N/A (e) dBA</td>
<td>(e) dBA</td>
<td>(e) dBA</td>
</tr>
<tr>
<td>Weekend/ Holidays</td>
<td>50(e) dBA</td>
<td>N/A (e) dBA</td>
<td>(e) dBA</td>
<td>(e) dBA</td>
</tr>
</tbody>
</table>

(m) measured (e) estimated

* Leq is the sound level corresponding to a steady-state (A-weighted) sound level containing the same total energy as a time-varying signal over a given sample period. Leq is typically computed over 1, 12, or 24 hour sample periods.

** Should be specified for the nearest property line for each phase. If the exploration and/or mine activity will have mobile on-site equipment, noise levels should be provided for them as well. Noise levels along the major haul route are also required if the activity will result in heavy truck hauling beyond the construction phase. Provide additional support data and exhibits as needed.

f. What is the difference and location to the nearest receptor?
The nearest receptor is the Blue Lead Mine which is approximately 500 feet southeast of a.p.n. 38-370-17.
The nearest receptor that is not a heavy industrial facility is a residence located approximately 1,200 feet southeast of the harvest area on a.p.n. 38-430-02. See Surrounding Land Use Map in Appendix A.

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4. **Plants and Animals**

   a. Will there, as a result of the project, be any changes in the species, or the number of plants and animals? ( )Yes (x)No If Yes, specify:

   Most of the harvesting area does not have any vegetative cover while a few areas have sparse trees and brush growing on the sand and gravel deposit. The Department of Fish and Wildlife has identified the foothill yellow-legged frog as a species that requires protection in nearby excavation areas and therefore amended the Streambed Alteration Agreement for the operation in June 2014. The current Agreement includes biological avoidance measures.

   b. Will the project result in the loss of, or a reduction in any unique, rare or endangered species of plants or animals including their habitat? ( )Yes ( )No If Yes, explain:

   The proposed operation is expected to have a less than significant impact to biological resources with the implementation of avoidance and minimization and/or mitigation measures. See Biological Inventory Report in Appendix I.

   c. Will new species be introduced into the area, or will the project result in a barrier to the normal replenishment of existing species of plants or animals? ( )Yes (x)No If Yes, explain:

   d. Describe any actions being taken during the project, and as part of the reclamation process, that will enhance/protection wildlife habitat:

   As described in the Biological Inventory Report provided in Appendix I, the recommended measures include: environmental awareness training, avoidance or minimization of plant impacts, avoidance of yellow-legged frog disturbance, avoidance of bird and nesting raptor disturbance, avoidance and minimization of impacts to Waters of the US and Waters of the State, and avoidance and minimization of impacts to riparian species.

5. **Light and Glare**

   a. Will the proposed project produce new light and glare?

      ( )Yes (x)No If Yes, specify amount, type, and duration:

      Night time operation is not planned.
6. **Land Use**

   a. Might the project conflict with existing land uses including recreational, educational, religious or scientific?  
      ( )Yes  ( )No  If Yes, explain:
      The proposed operation is located on vacant HBE owned property that is currently zoned FR-40 and is proposed to be amended to FR-40-ME. Additionally, the proposed expansion is adjacent to existing operations and therefore the proposal is consistent with surrounding land uses.

   b. In what way will the project cause change in the land use pattern, scale, or character of the general area?
      The operation proposes to extract a sand and gravel deposit within a streambed in a steep canyon adjacent to land with the identical use and therefore this operation will only lower the sand and gravel level, similar to pre-hydraulic mining conditions. All property within the vicinity of the of the proposed operation is zoned FR-40-ME, FR-40, or TPZ-40. The low density zoning planned by the County provides protection of mineral and forest resources, maintains low dwelling intensity, accounts for lack of capacity in the roadway access system, and preserves steep wooded slopes.

   c. Distance from the location of the nearest recognized named community:
      Approximately 6 miles to Nevada City.

7. **Natural Resources**

   a. Will the project result in the increased rate of use of any renewable or non-renewable natural resource?  
      ( )Yes  ( )No  Which one(s)?
      The rate of use of the resource, gravel, is determined exclusively by the market.

8. **Risk or Upset**

   a. Will the project involve a risk of explosion or the release of hazardous substances, including but not limited to oil, pesticide, herbicide, chemicals, or radiation, in the event of accident or upset conditions, flammables, or explosives?  
      ( )Yes  ( )No  If Yes, explain:
      Small amounts of oil, fuel, or other equipment related fluids could potentially be released in the event of a spill, leak, tank rupture, line break, etc. Containers of fluids will not be stored in the proposed expansion area, equipment is inspected and maintained frequently, and any spills that may occur would be addressed immediately and appropriately with the facility's equipment. Spill clean-up material is available at the existing processing plant.
b. Will the proposal result in possible interference with an emergency response plan or an emergency evacuation plan, or will it result in improving such plans or capabilities?  
(×)Yes  ( )No  
Explain:

The proposed operation could improve access to the area for emergency vehicles and create additional evacuation routes.

9. **Population**

a. Will the project have a growth-inducing effect on the community?  
( )Yes  (×)No  
If Yes, describe in detail:

b. Could the project alter the location, distribution, or displacement of the human population of the area?  
( )Yes  (×)No  
Explain:

c. How many new permanent residences will the project generate?  
None

10. **Housing**

a. Will the proposal effect existing housing, or create a demand for additional housing?  
( )Yes  (×)No  
Explain:
11. **Traffic/Roads**

   a. Describe the proposed access to the project:

      ___Frontage on County/State Highway: ____________________________
      Name of Road or Highway

      ___Private Road Easement: width:_________ length: ________________
      ____________________________
      Name of Road or Highway

      ___Prescriptive Right
      x Other: (explain) The proposed access will be via an extended haul route on existing HBE property.

   How many one-way trips will the project generate: *

   1. per day:  0-120
   2. peak hour:  0-15
   3. per week:  0-720
   4. on weekend days:  0

   * The only traffic related to the operation expansion is trips on the haul route to the existing downstream plant.

   b. Will the project involve off-site hauling of:  (Answer Yes or No) No, off-site hauling only occurs from the plant which is part of the existing operation and therefore is not addressed in this application.

      1. exploration samples: ____________  4. ore: ____________
      2. sand: ____________  5. waste: ____________
      3. aggregate: ____________  6. other mined
         material, specify: ____________

   If Yes, specify:

   1. Number of one-way truck trips per day:  Peak_______  Avg_______
   2. Number of one-way truck trips per week:  Peak_______  Avg_______
   3. Number of one-way truck trips on weekend:  Peak_______  Avg_______

   4. Hours of hauling activities:
   a) weekdays:  7:00am to 6:00pm
   b) weekends:  none

   5. Volume of material, and daily, and total amounts:
      Approximately 4,000 tons in peak season, or more depending on demand. No harvesting will take place during rainy conditions or weekends.

c. Will the project involve the transportation of off-site material to this site?
   ( )Yes   (x)No  If Yes, specify:

   1. Type of material and daily and total amounts:
      ________________________________________________________________
      ________________________________________________________________

   2. Number of one-way truck trips per day:       Peak_________ Avg_________
   3. Number of one-way truck trips per week:       Peak_________ Avg_________
   4. Number of one-way truck trips on weekends  Peak_________ Avg_________

d. Describe existing and proposed on-site and off-site road improvements:

   1. On-site
      Width:
      Surface:
      Name:
      Existing    N/A
      Proposed    40 feet
                  Native sand/gravel
                  Native Sand and Gravel

   2. Off-site  From the proposed expansion area to the existing plant (all on HBE property).
      Width:
      Surface:
      Name:
      Existing    40 feet
                  Native Sand and Gravel
      Proposed    40 feet
                  Native Sand and Gravel

12. Public Services

   Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:

      ( )Yes (x)No  If Yes, explain:
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________

   b. California Highway Patrol and Sheriff Department Law enforcement protection?
      ( )Yes (x)No  If Yes, explain:
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________

   c. Schools?  Which school districts?
      ( )Yes (x)No  If Yes, explain:
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________

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d. Federal, State, local or private parks, campgrounds or recreation facilities?  
( )Yes  (x)No  If Yes, explain:  
These facilities purchase the products the facility produces.

Distance from and location of nearest such facility and name:  
Rollins Lake Recreation Area - 4 miles southwest.  
Tahoe National Forest Boundary - Immediately adjacent to the northeast corner of the expansion area.

e. Maintenance of public facilities including roads?  (x)Yes  ( )No  If Yes, explain:  
The facility has a positive effect on road maintenance because the facility produces aggregate products  
which are used for road construction and maintenance. The facility also pays a use fee to the County  
to haul processed material.

f. Social Services?  
( )Yes  (x)No  If Yes, explain:

g. Solid waste facilities?  ( )Yes  (x)No  If Yes, explain:  
Any solid waste generated in the expansion area will be disposed of at the existing plant.

Method of trash and industrial waste disposal:  Waste Management Inc. (from existing plant)  
Mine operator hauling to landfill:  Hansen Bros. Enterprises (if necessary)  
Garbage service (specify which):  Waste Management Inc. (from existing plant)  
Destination: Grass Valley

h. Medical facilities:  
( )Yes  (x)No  If Yes, explain:

i. Other Services Required:  
None

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13. **Energy**

a. Will the project result in a substantial increase in the demand upon existing sources of energy, or require the development of new sources of energy?
   
   ( )Yes  (x)No  If Yes, explain:

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

b. Source of power:
   
   1. Public/private utility company: N/A
   
   Name ______________________________________________________
   
   2. Generator: (specify diesel/gas, size, quantity, etc.)
   
   None
   
   __________________________________________________________
   
   3. Other: (explain) Diesel fuel powers the harvesting equipment and diesel or gas powered pickups would also be used in the expansion area.
   
   __________________________________________________________

14. **Utilities**

Will the proposal result in a need for new systems, or substantial alterations to the following utilities?

a. Communication systems?  ( )Yes  (x)No  If Yes, explain:
   
   __________________________________________________________
   __________________________________________________________

b. Source of domestic water:
   
   Private well_________Water District (Specify which)______________
   
   Other Water is available at the existing plant.
   
   __________________________________________________________

     
     
   c. Method of sewage disposal:
   
   Septic system available at the existing plant. Other__________________________
   
   __________________________________________________________

   d. Describe storm water drainage system (use exhibit)

   Unnamed tributaries in the vicinity of the proposed expansion area flow to Greenhorn Creek which conveys runoff downstream of the existing facility to Rollins Reservoir. The proposed sand and gravel extraction area is within the floor of Greenhorn Creek. Harvesting ceases when creek flows prohibit material extraction. The operation will not result in increased storm water runoff. See maps in Appendix A.
15. **Human Health**

a. Will the project result in the creation of any health hazard or potential health hazard (excluding mental health)? ( )Yes  (x)No  If Yes, specify. Identify health hazards and define methods of control.

b. Will the project result in the creation of any health hazard or potential health hazard (excluding mental health)? ( )Yes  (x)No  If Yes, specify. Identify health hazards and define methods of control.

16. **Aesthetics**

a. How will the different project phases compare aesthetically with the surrounding area?

   The proposed operation is very remote and therefore it is unlikely that there is an aesthetic impact. The only visual change is the lowering of sand/gravel and the streambed is not an aesthetic resource.

b. Will the project cause a change in scenic views from existing residential areas, or public lands or roads?  (x)Yes  ( )No  If Yes, describe in detail nature of change and duration.

   On a gradual basis, the gravel level in the streambed will be lowered. Native revegetation is expected to occur on exposed areas and therefore return the stream appearance to a historic state.

17. **Cultural Resources**

   a. Are there any sites of historical, archeological or paleontological interest on the subject property?  ( )Yes  (x)No  ( )Don't know  If Yes, explain:

   Source of information: California Historical Resources Information System - North Central Information Center
   See Records Search Results in Appendix J.
b. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure or object? ( ) Yes( )No If Yes, explain:

18. **General**

a. As a result of the project, how many local people will be employed?
   One to five employees will continue to be employed by the expansion of the existing operation.

b. What effect will the project have on the local tax base?
   Expansion of the existing operation will allow the facility to continue to sell products.

c. What is the relationship of this project to a larger or future project?
   At this time, a plan for larger or future projects does not exist. The proposed expansion will provide the ability to continue a local operation that has existed for decades.

d. Identify State or Federal agencies that require permits, leases or licenses, and the type to be issued:
   California Department of Fish and Wildlife - Streambed Alteration Agreement - 1600-2007-142-R2
   Mine Safety and Health Administration (MSHA)
   California Regional Water Quality Control Board - WDR 98-185 (at the existing plant)
   California State Water Resources Control Board - IGP WDID 5S291002778 (at the existing plant)

**CERTIFICATION**

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements and information presented are true and correct to the best of my knowledge and belief.

______________________________
Signature of Applicant or Authorized Representative

______________________________
Date

Revised October, 2001