

Stormwater Management Permit Application

for

Iron Mountain Quarry's

New Shine Quarry

February 25, 2010

Jefferson County, Washington

Volume 2:

- **Extended SEPA Checklist**



**New Shine Quarry
Stormwater Management Permit**

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Submitted February 25, 2010**

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JEFFERSON COUNTY

DEPARTMENT OF COMMUNITY DEVELOPMENT

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ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

A. BACKGROUND

1. Name of proposed project, if applicable:

New Shine Quarry

2. Name of applicant:

Iron Mountain Quarry (IMQ)

3. Address and phone number of applicant and contact person:

**James E. Burnett
22171 – 17th Ave SE, Suite 117
Bothell, WA 98021
425-481-0999**

4. Date checklist prepared: **February 22, 2010**

5. Agency requesting checklist: **Jefferson County**

6. Proposed timing or schedule (including phasing, if applicable)

The Applicant proposes to conduct mining in three phases, beginning in 2010. The first phase (Phase 1A) will include establishing the primary and secondary processing and stockpile areas, storm water control ponds, a maintenance building & yard, and mining of the southeast portion of the site from existing grade to a minimum elevation of 155. Mining for Phase 1A is expected to last approximately 10 years. The second phase (Phase 1B) will be to mine the southwestern portion of the site, to the north of the secondary processing area, down to a minimum elevation of 217. The third phase (Phase 2) will be to expand the Phase 1A area to the north, advancing generally from south to north. The overall life of the mine is expected to be approximately 40 years. Refer to Exhibit 1 for an overall site plan.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

- **General Site Plan (attached as Exhibit 1).**
- **Geologic and Geohazard Assessment, AMEC Earth & Environmental, Inc., February 2008 (attached as Exhibit 2).**
- **New Shine Quarry, Wetland Delineation and Inventory, Environ, July 2009 (attached as Exhibit 3)**
- **Hydrogeology Report, Environ, June 2009 (attached as Exhibit 4).**
- **Critical Aquifer Recharge Area Report, Environ, February 2010 (attached as Exhibit 5)**
- **Existing Habitats, Plants and Animals Technical Memo, Environ, January 2010 (attached as Exhibit 6).**
- **Community Noise Assessment, AMEC Earth & Environmental, Inc., December 2009 (attached as Exhibit 7)**
- **Visual Impact of Proposed New Shine Quarry, Centre Point Consultants, Inc. P.S., November 2009 (attached as Exhibit 8)**
- **Iron Mountain Quarry Traffic Impact Analysis, Transportation Solutions, Inc. December 2009 (attached as Exhibit 9)**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

- **Jefferson County Stormwater Permit**
- **Jefferson County Building Permits for shop and office buildings**
- **Jefferson County Environmental Health Septic and Domestic Water Approval**
- **Surface Mining Permit from the Washington State Department of Natural Resources**
- **Forest Practices Act Permit from the Washington State Department of Natural Resources**
- **NPDES Stormwater General Permit from the Washington State Department of Ecology**
- **Administrative Order from the Washington State Department of Ecology for disturbance of isolated wetlands**
- **In addition, the following additional permits/approvals may be needed:**
 - **Hydraulic Project Approval from the Washington State Department of Fish &**

Wildlife

- **Section 404 Permit from the U.S. Army Corps of Engineers**
- **Section 401 Water Quality Certification from the Washington State Department of Ecology**

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Applicant intends to conduct mining on the subject property, including three phases as explained in response to question 6 above. The total project area is 142 acres. The mine will generally operate five days per week with occasional Saturday operations. The hours of operation will generally be from 6:30AM to 4:30PM. The hours of physical operations, including mining and processing will be from 7:30AM to 3:30PM, or as daylight allows. The mine could produce as much as 400,000 tons per year with volume in the winter months between 8,000 and 16,000 tons per month and during the summer between 26,000 and 52,000 tons per month. The expected mine life is approximately 40 years. Water for dust control will be provided from an exempt industrial well.

In addition to the mining operation equipment, the new processing facility will contain rock conveyors and crushers, a scale house and a maintenance building. The scale house and maintenance building will each have toilet facilities with an associated septic system, and water will be provided via an exempt domestic well.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The project site is located approximately 3 miles west of the town of Shine, to the north of State Route 104 and to the east & southeast of the existing Shine Quarry. The property is owned by Pope Resources and leased to Iron Mountain Quarry. The leased property area includes portions of parcel #'s 821291002, 821302001, 821324002, 821311001 & 821322001. Township 28N; Range 1E.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other.
- b. What is the steepest slope on the site (approximate percent slope)?
Approximately 60%.
- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.
Refer to the AMEC Geologic and Geohazard Assessment (Exhibit 2).
- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
No

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Mining operations begin with preliminary grading to remove topsoil to expose the underlying bedrock. Topsoil will be stockpiled on-site and used to construct temporary work sites and haul routes and for future reclamation. Mining will remove approximately 6,000,000 to 8,000,000 cubic yards of material over the life of the operation.
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Yes. There is the potential for erosion to occur during the grading and stockpiling of on-site soils. Therefore, soil removal and stockpiling will be done in a manner that minimizes the potential for erosion. Exposed bedrock does not cause erosion. Soils used in reclamation will be graded and vegetated to minimize potential erosion.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
Approximately 25,000 square feet will be covered by the new processing facility and mining operation equipment. Most of this area will be impervious surfaces. At the end of the mining operations the site reclamation plan will remove most of these impervious surfaces.
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
The mineral resource operations will minimize erosion by directing storm water runoff away from cleared areas to areas where the bedrock is already exposed or to areas that have been graded and/or modified to convey drainage without significant erosion. Storm water / sedimentation ponds, interceptor swales, interceptor berms and silt fences will be used to help reduce sediment transport from the site.

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.
Some dust and vehicle emissions will occur as a result of mining activities at the subject property.
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
None known.
- c. Proposed measures to reduce or control emissions or other impacts to air, if any:
Air emissions will be minimized by keeping vehicles and engines in good repair, by using conveyor systems to transport rock as much as possible, and by watering haul roads and stockpile areas to minimize dust.

3. Water

- a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

There are two streams on site, one that crosses the southeast corner of the site and one that crosses the southwest corner. The southeast stream is a perennial stream that has associated wetlands and discharges into Squamish Harbor. The stream that

crosses the southwest corner originates in headwater forested wetlands offsite and has intermittent flow. It is a tributary to the perennial stream that discharges to Squamish Harbor.

For a description of the on-site wetlands refer to Environ's Wetland Delineation and Inventory report (Exhibit 3). All but three wetlands are hydrologically isolated. Additional isolated wetlands were also identified as having been artificially created when a prior quarry on the site was in operation.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No work will occur over, in or adjacent to either of the streams. Through Phase 1A and Phase 1B, all work will remain outside of all regulated wetlands. In Phase 2, state and locally regulated isolated wetlands will be disturbed.

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

In Phase IA, the artificially created and hydrologically isolated depressional outflow wetlands in the former quarry area will be disturbed. In Phase IB no direct disturbances of the existing wetlands are proposed. In Phase 2, all of wetlands I, II, J, K and a portion of wetland M will be disturbed. These wetlands are all believed to be isolated and total approximately 3.15 acres.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

None other than stormwater discharge (see answer to question c. below).

b. Ground:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

Yes. The site will contain exempt wells for industrial and domestic water use.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Waste materials will be managed through an onsite septic system, which will be designed to meet the County's septic regulations. Septic approval will be sought along with future building permits for the scale house and maintenance building.

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Stormwater runoff from the project site will be collected in ditches and conveyed to the

proposed on-site storm water ponds which will provide flow control and water quality treatment. The storm water ponds will discharge to dispersion trenches which will be used to spread the flow before draining into the existing downstream wetlands. Refer to the Shine Quarry Phase 1A Drainage Control Report (Application Volume 2.1).

2) Could waste materials enter ground or surface waters? If so, generally describe.

No non-stormwater waste materials will be generated as part of mining operations, as noted above in question a(6). Suspended solids from stormwater management facilities, septage from septic drainfields, and hydrocarbons such as oil and lubricants from the maintenance yard and mining equipment are the only potential pollutants that may enter ground or surface waters.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

Potential impacts to surface and ground water quality and will be controlled through implementation of the approved Stormwater Pollution Prevention Plan and compliance with the NPDES Stormwater General Permit. Four on-site storm water (detention and water quality) ponds are proposed to provide flow control and water quality treatment for the proposed mining operations. An oil/water separator will collect the runoff from the maintenance yard area to provide primary treatment before discharging to the on-site storm water ponds. The mining equipment will be regularly maintained to help reduce the potential for oil leaks and the release of other contaminants. In addition, septic drainfields will be properly installed and maintained to control potential introduction of fecal coliform bacteria and pathogens to surface and ground water.

4. Plants

a. Check or circle types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

See also Environ Plants and Animals Technical Memo, Exhibit 6.

b. What kind and amount of vegetation will be removed or altered?

Forested upland and wetland vegetation will be removed during the various phases of the mining operations. Temporary impacts for each phase will be on the order 20 acres.

c. List threatened or endangered species known to be on or near the site.

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Native vegetation will be maintained in regulated wetlands, wetland buffer areas and other areas where mining and/or related quarry activities are not planned. Temporary impacts to forested vegetation during the active phase of mining will be restored as part of required mine reclamation activities. Restoration of forested vegetation types will be completed by replacing and recontouring stockpiled soil and replanting with native vegetation. Forested wetland communities will be restored as part of required mitigation using a similar

process

5. Animals

- a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site: .

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other:

- b. List any threatened or endangered species known to be on or near the site.
None known.
- c. Is the site part of a migration route? If so, explain.
Other than being on the Pacific Flyway, this site is not known to be part of any migration routes.
- d. Proposed measures to preserve or enhance wildlife, if any:
Portions of the subject property will be left in their natural condition. In addition, native vegetation will be maintained in all undisturbed buffers. Mined areas will be reclaimed and forested upland and wetland vegetation types restored with stockpiled soils and native vegetation as required permits governing mine reclamation and wetland mitigation.

See also Environ Plants and Animals Technical Memo, Exhibit 6.

6. Energy and natural resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.
Power is provided by the local utility purveyor.
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.
No.
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:
None Proposed.

7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.
The proposed mining operations will involve the use of explosives and petroleum products. No explosives will be stored on-site and petroleum products (diesel, gas, and lube oils) will be stored in a designated containment area.
- 1) Describe special emergency services that might be required.
The proposed mining operation may require fire/medical aid services.
- 2) Proposed measures to reduce or control environmental health hazards, if any:
No explosives will be stored on-site and petroleum products will be stored in designated containment areas meeting all applicable requirements.

b. **Noise**

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Traffic, mineral extraction and processing, and blasting now occur in the vicinity of the subject property, but are not expected to have a significant negative impact on future mineral resource operation at the subject property.

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

The types and levels of noise created by the mineral resource operations include noise from material loading and processing, vehicle traffic, and occasional blasting. The noise levels will be similar to those of the adjacent mining operations. Given the distance from the mine and residential receptors, all noise standards are expected to be met. See AMEC Community Noise Assessment, Exhibit 7.

- 3) Proposed measures to reduce or control noise impacts, if any:

Vehicles will be equipped with mufflers to help reduce noise. Blasting will occur infrequently (typically no more than 2 times per month) and only during normal business hours. See AMEC Community Noise Assessment, Exhibit 7.

8. **Land and shoreline use**

- a. What is the current use of the site and adjacent properties?

The subject property is currently forest land that was clear cut in approximately 1985 and is designated/zoned Commercial Forest. It is surrounded on three sides by other properties that are also designated Commercial Forest. The land immediately to the west is currently subject to a MRLO and includes an active mineral resource operation. The northeast corner of the property adjoins property designated/zoned Rural Residential (RR 1:20). That property, however, is also owned by Pope Resources and is operated as commercial forest. The nearest known residence is more than a mile from the subject site.

- b. Has the site been used for agriculture? If so, describe.

No.

- c. Describe any structures on the site.

No existing structures on the site.

- d. Will any structures be demolished? If so, what?

No.

- e. What is the current zoning classification of the site?

Commercial Forest (CF 1:80)

- f. What is the current comprehensive plan designation of the site?

Commercial Forest

- g. If applicable, what is the current shoreline master program designation of the site?

Not Applicable.

- h. Has any part of the site been classified as an "environmentally sensitive" or critical area? If so, specify.

Yes. Some portions of the site have been classified as wetlands and streams. In addition, some portions of the subject property include steep slopes.

- i. Approximately how many people would reside or work in the completed project?
10 people would work at the completed project. There will be no residences.
- j. Approximately how many people would the completed project displace?
None.
- k. Proposed measures to avoid or reduce displacement impacts, if any:
Not Applicable.
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
A 50 foot wide forested buffer will remain along all lease lines that are not adjacent to existing mineral resource operations or roadways.

Existing vegetation and topography will prevent the proposed mine from having any significant visual impact.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
Not Applicable. There will be no housing units at the mine site.
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
Not Applicable
- c. Proposed measures to reduce or control housing impacts, if any:
Not Applicable

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
The tallest structure will be 50 feet (+ or -).
- b. What views in the immediate vicinity would be altered or obstructed?
See Visual Impact analysis, Centre Point Consultants, Inc. P.S., November 2009 (attached as Exhibit 8).

According to the Visual Impact analysis, the existence of wide spaces between the mining operation and potential residential development, the heavy forests that remain around the mining operation, and the existing vegetation on the Port Ludlow Master Resort property will prevent the proposed mine from having any significant visual impact.

- c. Proposed measures to reduce or control aesthetic impacts, if any:
None proposed.

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
Some low level security lighting will be used near the maintenance building and yard

b. Could light or glare from the finished project be a safety hazard or interfere with views?
No.

c. What existing off-site sources of light or glare may affect your proposal?
None.

d. Proposed measures to reduce or control light and glare impacts, if any:
No.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?
Recreational hiking opportunities exist on private properties in the surrounding area.

b. Would the proposed project displace any existing recreational uses? If so, describe.
No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
None proposed.

13. Historic and cultural preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.
None known.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.
None known.

c. Proposed measures to reduce or control impacts, if any:
None.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.
Existing access to the site is provided via an existing private roadway that extends approximately 300 feet northeast and perpendicular to State Route 104, and then turns northwest and continues for about 430 feet to the proposed new access roadway for the subject property. The existing private roadway parallels the subject property's southwestern lease line and continues to the north/northwest to serve additional properties.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
No. The location of the nearest transit stop is unknown.

c. How many parking spaces would the completed project have? How many would the project eliminate?
It is unknown at this time how many parking spaces will be provided as part of the

mineral resource operations. No existing parking spaces will be eliminated.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).
No.
- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
No.
- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
See Traffic Impact Analysis, Transportation Solutions, Inc. December 2009 (attached as Exhibit 9). It is expected that this project would generate approximately 128 daily trips, with approximately 24 trips occurring in the AM peak hours and 12 trips occurring during the PM peak hours.
- g. Proposed measures to reduce or control transportation impacts, if any:
None proposed.

15. Public services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
No.
- b. Proposed measures to reduce or control direct impacts on public services, if any.
None proposed.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.
No public utilities are proposed. A private septic system and two exempt wells will be constructed. Refuse and used oil will be transported off-site and disposed of properly.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  _____

Date Submitted: February 25, 2010