# OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

## FORM 1- NOTICE OF CONSTRUCTION

TO CONSTRUCT - INSTALL - ESTABLISH OR MODIFY AN AIR CONTAMINANT SOURCE

Form 1 Instructions:

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records (www.orcaa.org/forms).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

| | |
|---|---|
| Business Name: Mountain Stone Aggregate | **For ORCAA use only** |
| Mailing Address: 30211 State Route 507 South, Roy WA 98580 | File No: 225<br>County No: 67<br>Source No: 827<br>Application No: |
| Physical Address of Project or New Source: 15549 Johnson Creek Rd South East Tenino, WA 98589 | Date Received: Received FEB 10 2021 ORCAA |
| Billing Address: 30211 State Route 507 South, Roy WA 98580 | |
| Project or Equipment to be installed/established: Rock Crushing Plant | |

Anticipated startup date: 2 / 10 / 21 Is facility currently registered with ORCAA? Yes ☐ No ☑

This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option:

- ☐ SEPA was satisfied by _____ (government agency) on ___/___/___ (date) - Include a copy of the SEPA determination
- ☐ SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist
- ☐ ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist
- ☑ This project is exempt from SEPA per ~~operational START DATE~~ (WAC citation). (SEPT 30 1971)

| | | |
|---|---|---|
| **Name of Owner of Business:** STEVE & MIKE OLSON | | Agency Use Only |
| Title: OWNERS | | |
| Email: STEVEOOBEE@COMCAST.NET | Phone: 253-606-1071 | |
| **Authorized Representative for Application** (if different than owner): Craig Davies | | |
| Title: Manager | | |
| Email: CraigeMOUNTAINSTONEAGG.COM | Phone: 253-792-1167 | |
| **I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.** | | |
| **Signature of Owner or Authorized Representative: (sign in Blue Ink)** | | |
| Craig A. Davies | **Date:** 2-10-21 | |

**IMPORTANT:** Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.

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## FORM 1D- Contact Information

| **Business Name** | **FOR ORCAA USE** |
|---|---|
| Mountain Stone Aggregate | **FILE #** |
| **Physical Site Address (Street address, city, state, zip)** | **CTY #** |
| 15549 Johnson Creek RD South East<br>Tenino WA 98589 | **SRC #** |
| | **Date Received** |
| **Previous Business Name (if applicable)** | |

**Contact Information**

| | |
|---|---|
| **Inspection Contact** | |
| Name Russel | Title PLANT Supervisor |
| Phone 425-985-9771 | Email |
| **Billing Contact** | |
| Name ALISHA DAVIES | Title Accounting Dept. |
| Phone 360-972-0845 | Email Accounting@MountainStoneAgg.com |
| **Emission Inventory Contact** | |
| Name Charlie Morrow | Title Aggregate Manager |
| Phone 360-972-0670 | Email CharlieeMountainStoneAgg.com |
| **Complaint Contact** | |
| Name Craig Davies | Title Manager |
| Phone | Email CraigeMountainStoneAgg.com |
| **Permit Contact** | |
| Name Charlie Morrow | Title AGGREGATE Manager |
| Phone 360-972-0670 | Email CharlieeMountainStoneAgg.com |

The **inspection contact** is the on-site person responsible for the everyday operation of the site and is available for inspections.
The **billing contact** is the person invoices are sent.
The **emission inventory contact** is the person requests for emissions information and material use information are sent.
The **complaint contact** is the person who receives and responds to complaints received on-site and who is contacted regarding complaints ORCAA receives.
The **permit contact** is the person responsible for filling out permit applications and receiving approval from ORCAA.

# OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

## NOC FORM 24B – ROCK CRUSHING PLANT

**Company (or owner) name and address:**
Mountain Stone Aggregate
30211 State Route 507 South
Roy WA 98580

**Applicant name and address:**
Mountain Stone Aggregate (Johnson Creek Quarry)
15549 Johnson Creek Road South East
Tenino WA 98589

**Contact name, phone #, FAX #, and e-mail address:**
Craig Davies 253-792-1167
Craig@Mountain Stone agg.com

**Plant operator name, phone #, FAX #, and e-mail address:**
Russell Koutsouros
425-985-9771

**Intended Location:**
- ✓ Surface Mining Permit No.: 70-012716
- ✓ Pit Name: Johnson Creek Quarry
- ✓ County: Thurston
- ✓ SEC. 24 ,TWNSHP. 16N ,RANGE: 1W
- ✓ Street address: 15549 Johnson Creek Road South East Tenino WA 98589

**Previous Location (if applicable):**
- ✓ County:
- ✓ Agency approved by:
- ✓ Approval Order No.:

**Note:** If previous location of the plant was outside ORCAA's jurisdiction, then attach copy of Approval Order issued by local air authority.

**Compliance with other state and local requirements:** Operation of the crushing plant must also comply with any applicable State Environmental Policy Act (SEPA), State Sand and Gravel General Permit, or local government requirements. By marking the box below and signing this form, the applicant declares that this condition is satisfied for the intended location of the plant.

☒ All applicable SEPA, Sand and Gravel General Permit, and local government requirements are satisfied for the intended location of the crushing plant.

**ORCAA General Rock Crusher Approval (optional):** Applicants have the option to request ORCAA's "General Rock Crusher Approval Order" which offers more flexibility for relocation and operation (see ORCAA's General Rock Crusher Approval Order Fact Sheet for more details.) After reviewing the operating criteria, you may choose to opt in by checking the box below.

☒ I have read the operating criteria for ORCAA's General Rock Crusher Approval Order and request that ORCAA process my application under the General Rock Crusher Approval.

**Rock/Concrete Crushers -** For each crusher indicate type, make, model # and rated capacity (tons per hour):
1. Jaw Crusher : Minyu MS-3254 340 TPH
2. Metso HP4 Cone crusher 300 TPH
3.

**Screening Equipment -** Indicate make, model number and top surface area (square feet) of each screening deck:
1. Finish Screen : Cedarapids FSG-7203-38 140 sq ft per deck (3) = 420 sq ft.
2. Scalp Screen : Cedarapids FSG-5143-32 70 sq ft per deck (3) = 210 sq ft.
3.

**Plant Electricity Needs -** Check boxes that apply:
- ☐ Plant electricity from local utility.
- ☒ Diesel generator on site:
  - Generator size _____ hp 1750 kW
  - Generator fuel type: ULSD #2 Dyed Diesel

**Dust Control Measures** – Check those precautions that will be used and provide the specified information:
- ☒ Water spray using on-site water truck or sprinkler system.
- ☒ Reduced vehicle speeds 20 mph
- ☐ Vehicle track-out measures (Please describe.)
- ☒ Water spray (Show location on process flow diagram.)
- ☐ Other (Please describe on separate paper.)

**Other Required Information -** The following information is needed to complete the application:
- ✓ Process flow diagram showing sequence of crushers, screens and conveyors, and location of water spray points.
- ✓ Site map showing pit property lines, location of crushing plant and location of major haul roads.

**Certification** – I, the undersigned, do herby certify that the information contained in this notification is, to the best of my knowledge, accurate and complete.

Signature: _____ Date: _____

MSA
MOUNTAIN STONE AGGREGATE

**Process Description**

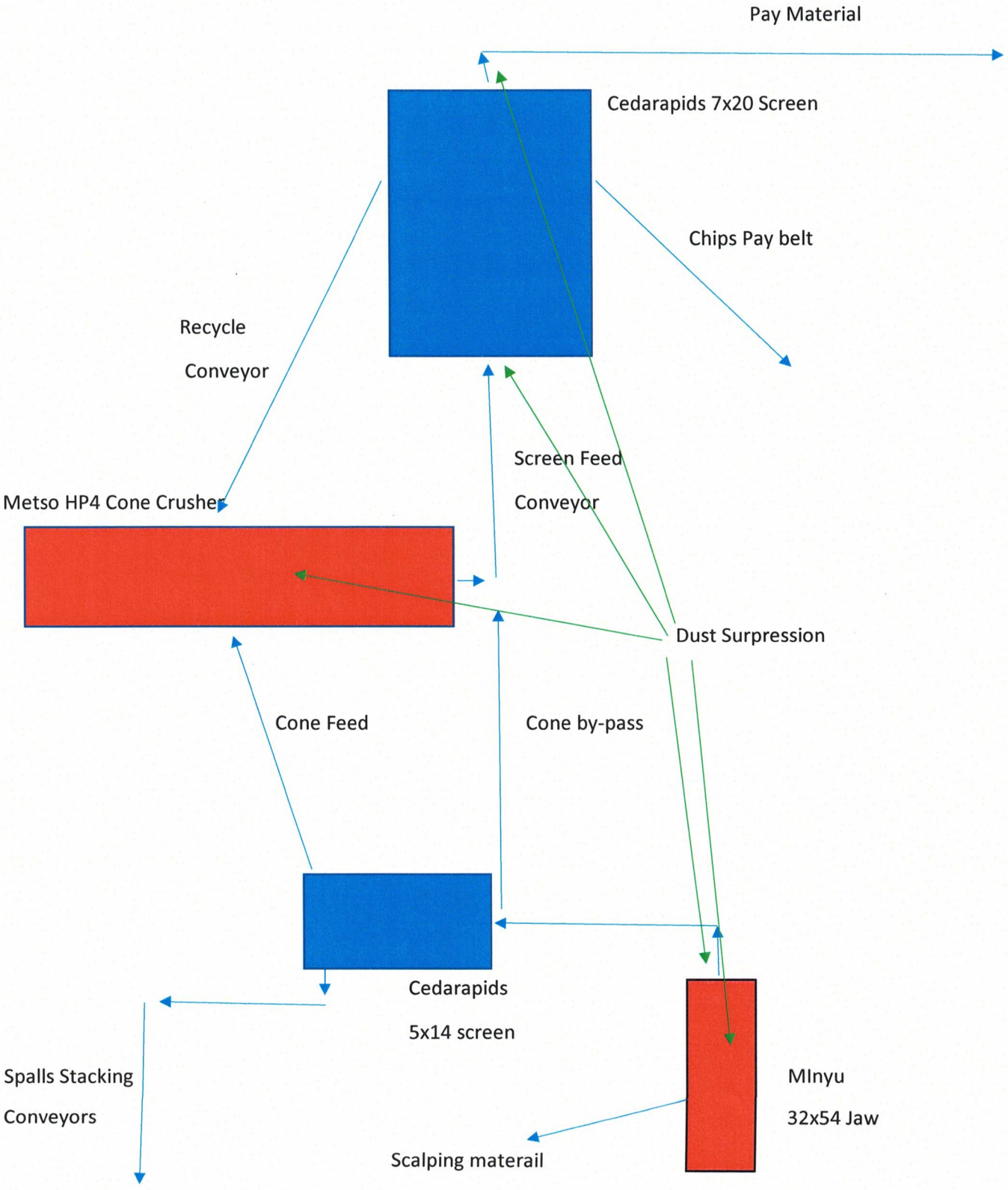
An excavator will load a off road haul truck with feed material from the working face. The haul truck will haul the material to the crusher and dump the feed material in the hopper of the jaw. Material will get crushed through the jaw and travel to the 5x14 triple deck screen where it will either by-pass and go directly to the finish screen or be conveyed to the cone to be sized down. From the cone it will be conveyed to the finish screen. If the material passes the screen it will be conveyed to the pay-belt, if it needs further reduction it will be conveyed back to the cone. From the pay-belt stockpile the material will moved to the final stockpile by wheel loader or loaded onto highway trucks for the sale.

We have a 1,600 gl. To use for our dust suppression on the crushing plant. There are dust suppression mister nozzles at the feed opening & discharge of the jaw, discharge from the cone, discharge of the finish screen and the feed end of the finish screen.

You are currently running an experimental version of Earth. Learn more Send feedback

100%

Camera: 2,711 m 46°51'38"N 122°43'55"W 183 m


Pay Material
Cedarapids 7x20 Screen
Chips Pay belt
Recycle
Conveyor
Screen Feed
Conveyor
Metso HP4 Cone Crusher
Dust Surpression
Cone Feed
Cone by-pass
Cedarapids
5x14 screen
Spalls Stacking
Conveyors
MInyu
32x54 Jaw
Scalping materail

THURSTON COUNTY
WASHINGTON
SINCE 1852

**Community Planning & Economic Development**
2000 Lakeridge Dr. S.W., Olympia, WA 98502
(360)786-5490 / (360)754-2939 (Fax)
TTY/TDD Line 711 or 1-800- 833-6388
Email: permit@co.thurston.wa.us
www.thurstoncountybdc.com

## Supplemental Application

# ENVIRONMENTAL CHECKLIST (SEPA)

| STAFF USE ONLY | DATE STAMP |
|---|---|
| LABEL<br>PLEASE NOTE:<br>ALL APPLICATIONS AND SITE PLANS MUST BE COMPLETED IN BLACK OR BLUE INK ONLY | Intake by:_____ |

**This application form cannot be submitted alone. In addition to this form, a complete application package includes:**

| Applicant Use | SUBMITTAL CHECKLIST | Staff Use Only |
|---|---|---|
| ☒ | Master application. | ☐ |
| ☒ | Applicable processing fees. *Refer to current fee schedules. Depending on the adopted fee structure, additional fees may occur if base hours/fees at intake are exhausted.* | ☐ |
| ☒ | Site plan – One copy of a site plan, drawn to scale on 8 ½ x 11 or 11 X 17 paper, which depicts all items outlined in the attached site plan submittal requirements. | ☐ |
| ☒ | Environmental reports (wetland report, mitigation plan, geotechnical report, etc.) as required. | ☐ |
| ☒ | Signature and date. | ☐ |

## 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 Environmental Impact Statement (EIS). Answer the questions briefly, with the most precise information known, or give the best description you can. **DO NOT WRITE IN THE AREA THAT IS SPECIFIED FOR AGENCY USE ONLY AND USE ONLY THE ENVIRONMETNAL CHECKLIST APPLICATION PROVIDED BY THURSTON COUNTY.**

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 a significant adverse impact.

## Use of Checklist for Non-Project Proposals:

Non-project proposals are those which are not tied to a specific site, such as adoption of plans, policies or ordinances. Complete the Environmental Checklist for non-project proposals even though questions may be answered "does not apply." In addition, complete the Supplemental Sheet for Non-project Actions (Part D).

For non-project actions, the references in the application to the words "project," "applicant," and "property" should read as "proposal," "proposer," and "affected geographic area," respectively.

## Supplemental and Site Plan Submittal Requirements

This application shall contain and/or address the following in a clear, accurate and intelligible form. Submit this checklist with your application. Check the box for each item addressed. Provide an explanation for any unchecked item.

| Applicant Use | Supplemental and Site Plan Submittal Requirements | Staff Use Only |
|---|---|---|
| ☒ | **1.** The project site must be identified in the field by posting an identification sign visible from the access road and by flagging the property corners and the center of the driveway/road access location. The purpose of the sign is for project identification rather than public notification. The sign and flagging are provided by Thurston County and can be obtained at the Building Development Center. | ☐ |
| ☒ | **2.** One copy of a site plan, drawn to scale (standard engineer scale) on 8 ½" x 11" or 11" X 17" paper, which depicts the following: | ☐ |
| ☒ | a. All information drawn to scale (standard engineer scale). | ☐ |
| ☒ | b. A north arrow, map scale, date and site address. | ☐ |
| ☒ | c. Property boundary lines and dimensions for all affected parcel(s). | ☐ |
| ☒ | d. The location of all existing structures, including, but not limited to, mobile homes, houses, sheds, garages, barns, fences, culverts, bridges, and storage tanks. | ☐ |
| ☒ | e. All means, existing and proposed vehicular and pedestrian ingress and egress to and from the site, such as driveways, streets and fire access roads, including existing road names and existing county and state right-of-way. | ☐ |
| ☒ | f. The location of all existing and proposed easements | ☐ |
| ☒ | g. The location of all existing proposed public and on-site utility structures and lines, such as on-site septic tanks, drainfields and reserve areas, water lines, wells and springs. | ☐ |
| ☒ | h. The location of all critical areas including, but not limited to, shorelines, wetlands, streams, flood zones, lakes, high groundwater, and steep slopes. | ☐ |
| ☒ | i. Vicinity sketch, at a scale of not less than three (3) inches to the mile, indicating the boundary lines and names of adjacent developments, streets and boundary lines of adjacent parcels, and the relationship of the proposed development to major roads and highways. | ☐ |
| ☒ | j. Include acreage and square footage within each parcel. | ☐ |
| ☒ | k. Description of proposed grading, including a written estimate of both cut and fill quantities in cubic yards and a map showing the location of cut and fill areas. | ☐ |

| Applicant Use | Supplemental and Site Plan Submittal Requirements | Staff Use Only |
|---|---|---|
| ☒ | l. Description of proposed grading, including a written estimate of both cut and fill quantities in cubic yards and a map showing the location of cut and fill areas. | ☐ |
| ☒ | m. Topographic information showing two-foot contours for the entire subject parcel or parcels and a minimum of fifty feet into adjacent parcels, based on available county information. The topographic information may be generalized to the smallest, even-numbered, contour interval that is legible in areas of steep slopes where two-foot contour lines would otherwise be illegible to read. | ☐ |
| ☒ | **3.** Environmental reports (wetland report, mitigation plan, geotechnical report, etc.) as required. | ☐ |

**SEPA Environmental Checklist – 2016 Version**

***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization of compensatory mitigation measure will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

***Instructions for applicants:*** [help]

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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.

***Instructions for Lead Agencies:***

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make and adequate threshold determination. Once the threshold determinate is made, the leas agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

***Use of checklist for non-project proposals:*** [help]

For non project proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NON-PROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words" project," "applicant," and "property or site," should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B – Environmental Elements – that do not contribute meaningfully to the analysis of the proposal.

## A. BACKGROUND [help]

1. Name of proposed project, if applicable: [help]

   *Johnsons Creek Quarry Extension*

   *RBE Project No. 19051*

2. Name of applicant: [help]

   *Mountain Stone Aggregate - Mike Olson and Steve Olson*

3. Address and phone number of applicant and contact person: [help]

   *30211 SR 507*
   *Roy, WA 98580*
   *mikeoobe@comcast.net*
   *(253) 606-1069*

4. Date checklist prepared:[help]

*July 8, 2020*

5. Agency requesting checklist: [help]

*Thurston County*

6. Proposed timing or schedule (including phasing, if applicable): [help]

*The current mining plan is to expand in late 2020 and operate out to 2030.*

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

*No.*

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

*A wetland report prepared by Ecological Land Services was completed on May 29, 2020 and a Traffic Impact Analysis was conducted in February of 2020. Both documents are being submitted with this SEPA checklist.*

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. [help]

*There are no pending applications at this time.*

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

*This project will include the following permits: Special Use Permit, Critical Area Administrative Review, NPDES Gravel Mine Permit, SEPA, Mining Application and Fill and Grade Permit and a Surface Mine Reclamation Permit with Washington State DNR.*

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.) [help]

*The applicant is proposing to permit the 228-acre leased land to mine 7,500,000 cubic yards (15,000,000 Tons) of rock within a 42-acre area within the mining permit boundary. The mining proposed will be down to an elevation depth of 670 feet as shown on the attached site plan. The project will include mining the material, crushing the material, stockpiling and importing and exporting material to the site. Mining operations that include blasting, crushing and hauling will be done during normal work hours Monday through Friday. To support WSDOT projects, the mine will occasionally operate in the evening hours and weekends. Late night and weekend operations will only include loading and exporting and importing material. No blasting or rock crushing will be done during late night hours or weekends.*

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. [help]

*Property Address(s) is 0 Johnson Creek Rd SE, Tenino, Washington 98589*
*Property is owned by Weyerhaeuser Timber Co., 220 Occidental Ave S. Seattle WA. 98104-3120*
*Parcel No.(s) 11624100000 - 553 Acres, 21619000000 - 609.1 Acres & 116244100000 - 80 Acres, Section 24, Township 16, Range 1W, W.M.*

## B. ENVIRONMENTAL ELEMENTS [help]

### 1. Earth

a. General description of the site [help] (select one): ☐Flat, ☐rolling, ☒hilly, ☒steep slopes, ☒mountainous, other:

b. What is the steepest slope on the site (approximate percent slope)? [help]

*Steepest slope onsite is approximately 45%.*

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 agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils. [help]

*Based on NRCS Soils Data the following soils are present on project site: 68-Melbourne silty clay loam, 22-Cathcart gravelly loam, 124-Wilkeson silt loam. There is no agricultural soil at this site.*

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [help]

*No, however, per Thurston County GeoData Center the project site is flagged for Landslide Hazard Review Area Slope A & B.*

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill. [help]

*The Project will include approximately 7,500,000 cy of mined material and approximately 135,000 cy of imported clean fill material for reclamation.*

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [help]

*Yes, however a Mining General Stormwater Pollution Prevention Plan (SWPPP) will be preparded that outlines approriate Best Management Practices to control and contain any sediment migration within the project limits.*

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? [help]

*Approximately 1.5% percent of the 1,242 acres of impervious surface will be created at the end of the mining operation.*

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [help]

*Best Management Practices will be used to prevent and contain erosion onsite during construction. The projects SWPPP requires that a Certified Erosion and Sediment Control Lead (CESCL) monitoring the site during construction.*

**2. Air**

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. [help]

*Normal emissions from mining equipment exhaust and truck traffic.*

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [help]

*None*

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [help]

*The SWPPP will include BMP's for control of dust during the mining operation.*

3. **Water**

a. Surface Water: [help]

DNR Stream Classification Mapping Website https://fpamt.dnr.wa.gov/default.aspx

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. [help]

*Deschutes River is located approximately 2,500 feet northeast of the fill site.*

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. [help]

*No.*

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. [help]

*None.*

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

*None.*

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

*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. [help]

*No.*

b. Ground Water:

1) Will ground water be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to ground water? Give general description, purpose, and approximate quantities if known. [help]

*No.*

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. [help]

*None.*

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. [help]

*The project will create new impervious surfaces during the operation of the mine. The runoff will be conveyed in ditches along the base of the new fill slopes to sediment ponds before being fully dispersed at the existing natural drainage paths. All stormwater will remain on the project parcels. After final reclamation the mine site will have minimal impervious surface as 90% of the site will be reclaimed and planted.*

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

*No.*

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

*No.*

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

*The project will incorporate a SWPPP and stormwater design that provides water quality and flow control facilities to mitigate the impacts to surface and ground waters.*

4. **Plants** [help]

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
☐Orchards, vineyards or other permanent crops
☒wet soil plants: ☐cattail, ☐buttercup, ☐bullrush, ☐skunk cabbage, ☐other: *SEE ELS Critcal Area Report for list of wetland plantings.*
☐water plants: ☐water lily, ☐eelgrass, ☐milfoil, ☐other:
☐other types of vegetation:

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

*Approximately 42 acres of fir trees, brush and grasses will be removed for the mining operation.*

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

*No, the Washington State Department of Fish and Wildlife Priority Habitat and Species mapping did not map any priority habitats or species within the proposed mining permit area. See ELS Critical Area Report for detailed review of habitat and species near the site.*

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

*A reclamation plan will include the use of overburden for reclamation of the site. Native planting and seed will be utilized.*

e. List all noxious weeds and invasive species known to be on or near the site:

*There is no significant invasive species cover but there are small areas of blackberry, Scotch Broom and Canada Thistle.*

5. **Animals**

Washington Endangered Species Website https://wdfw.wa.gov/conservation/endangered/

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site: Examples include: [help]

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. [help]

*Mazama Pocket Gopher soils are classified as low probability approximately 2,500 LF west of the fill site. No known engangered species are located within the project distrubance area.*

c. Is the site part of a migration route? If so, explain. [help]

*Yes, Pacific Flyway Migration Route.*

d. Proposed measures to preserve or enhance wildlife, if any: [help]

*Final reclamation plan will include overburden placed fill slopes and replanted and used for forest production.*

e. List any invasive animal species known to be on or near the site:

*None.*

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. [help]

*None, electricity is provided via onsite generator.*

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [help]

*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: [help]

*None.*

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. [help]

*The mining operation will include a mobile re-fueling truck for re-fueling of the mining equipment.*

1) Describe any known or possible contamination at the site from present or past uses:

*An area was identified by DOE near the truck scales. That area has since been cleaned up per the compliance letter dated August 8, 2019.*

2) Describe existing hazardous chemical/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity:

*None known.*

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project:

*None known.*

4) Describe special emergency services that might be required.

*None.*

5) Proposed measures to reduce or control environmental health hazards, if any:

*Mining operations will include ongoing training regarding the use and storage fuel and oils associated with the operation and maintenance of the mining equipment. Spill Control Kits will be onsite.*

b. **Noise**

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

*Noise from the existing mining, drilling and blasting and rock crushing equipment as well as logging equipment currently exist in the vicinity.*

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. [help]

*Commercial Trucks, Drilling and Blasting, Logging and earthwork equipment.*

3) Proposed measures to reduce or control noise impacts, if any: [help]

*Limit mining, rock crushing and blasting operations to weekday daylight hours, Mining provides a setback from residential areas in excess of 1,200 linear feet.*

8. **Land and shoreline use**

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. [help]

*The current site is forest land. Adjacent properties approximately 1,200 feet to the north are residential lots. All other surrounding properties are working forest lands.*

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long–term commercial significance will

be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to non-farm or non-forest use? [help]

*Yes, site is used as forest land.*

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling and harvesting? If so, how:

*No.*

c. Describe any structures on the site. [help]

*A small-scale shack and truck scales existing onsite.*

d. Will any structures be demolished? If so, what? [help]

*No.*

e. What is the current zoning classification of the site? [help]

*The current zoning is LTF, Long-Term Forestry.*

f. What is the current comprehensive plan designation of the site? [help]

*Rural.*

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

*Per Thurston County Geodata there is not shoreline designation the project parcels.*

h. Has any part of the site been classified as critical area by the city or county? If so, specify. [help]

*Yes, the Thurston County Geodata mapping identifies onsite stream and wetlands as well as possible landslide hazard areas. The site also includes mapping of Class 2 and 3 Critical Aquifer Recharge Areas.*

i. Approximately how many people would reside or work in the completed project? [help]

*A range of 5 to 8 employees work at the mining operation. There are no permanent onsite employees.*

j. Approximately how many people would the completed project displace? [help]

*None.*

k. Proposed measures to avoid or reduce displacement impacts, if any: [help]

*None.*

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [help]

*The proposed mining operation is compatible with the current forest land operations surrounding the mining operation.*

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

*None.*

9. **Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [help]

*Not applicable.*

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [help]

*Not applicable.*

c. Proposed measures to reduce or control housing impacts, if any: [help]

*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? [help]

*No structures proposed.*

b. What views in the immediate vicinity would be altered or obstructed? [help]

*None.*

c. Proposed measures to reduce or control aesthetic impacts, if any: [help]

*Not applicable*

11. **Light and glare**

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [help]

*None.*

b. Could light or glare from the finished project be a safety hazard or interfere with views? [help]

*No.*

c. What existing off-site sources of light or glare may affect your proposal? [help]

*None.*

d. Proposed measures to reduce or control light and glare impacts, if any:

*None.*

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity? [help]

*McIntosh Lake is near the project site with fishing and boating activities, also the Deschutes River has typical small river activities, i.e. fishing, swimming and general rafting. The Thurston Co Rails to Trails pathway is located to the north of the project site.*

b. Would the proposed project displace any existing recreational uses? If so, describe. [help]

*No.*

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [help]

*None.*

13. **Historic and cultural preservation**

State Historical Preservation Office (SHPO) WISAARD: https://fortress.wa.gov/dahp/wisaardp3/

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe. [help]

*Research of available public resources did show the site is in the Cowlitz Tribe Historic Area.*

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries, Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources. [help]

*Research of available public resources does show the site is in the Cowlitz Tribe Historic Area.*

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archeological surveys, historic maps, GIS data, etc. [help]

*Review of the online search engine WISAARD on the Washington State Department of Historic Preservation website.*

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

*None.*

14. **Transportation**

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any. [help]

*The site will be accessed by Johnson Creek Rd SE.*

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? [help]

*No, nearest transit stop is 2.8 miles away.*

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [help]

*Onsite parking areas are provided for equipment and employees.*

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). [help]

*No.*

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [help]

*No.*

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non- passenger vehicles). What data or transportation models were used to make these estimates? [help]

*The expansion project is estimated to increase the existing vehicular traffic by 10 to 20%. See traffic study prepared by Jake's Traffic Engineering is included with this SEPA Checklist.*

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

*No.*

h. Proposed measures to reduce or control transportation impacts, if any: [help]

*Some minor clearing at the access to Johnson Creek Road is required to improve site distance.*

15. **Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. [help]

*No.*

b. Proposed measures to reduce or control direct impacts on public services, if any. [help]

*None.*

16. **Utilities**

a. Select utilities currently available at the site: [help]

☐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. [help]

*None.*

## C. SIGNATURE [HELP]

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:

Name of signee: ROBERT BALMELLI PE

Position and Agency/Organization: PROJECT ENGINEER

Date Submitted: 8-13-20