



Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to Ground Water by Land Treatment or Application

This application is for a state waste discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant name: Hecla Limited
2. Facility name: Republic Unit
(if different from applicant)
3. Applicant mail address: 6500 N Mineral Drive, Suite 200
Street
Coeur d'Alene, Idaho 83815-9408
City/State Zip
4. Facility location address: 190 Knob Hill Road
(if different from above) Street
Republic, Washington 99166
City/State Zip
5. UBI No. 6004545
68
Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a [Master Business Application](#) to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.
6. Latitude/longitude of the processing facility as decimal degrees (NAD83/WGS84):
48671366 N / 118.754020 W

FOR ECOLOGY USE ONLY

Check One

New/Renewal ☐

Modification ☐

Date application received

Application/Permit no.

Date application accepted

Date fee paid

7. Person to contact who is familiar with the information contained in this application:

| | |
|---|-----------------------------------|
| <u>Dave Holland</u> Name | <u>Project Manager</u> Title |
| <u>208-769-4156</u> Telephone number | <u>208-292-5526</u> Fax number |

8. Check One:

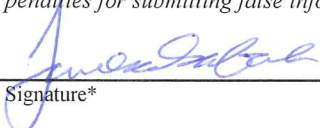
☒ **Permit renewal** (including renewal of temporary permits authorized by RCW 90.48.200)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☐ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

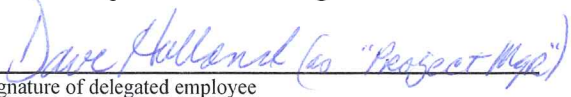
☐ **Permit modification** ☐ **Existing unpermitted discharge** ☐ **Proposed discharge**
Anticipated date of discharge: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.

| | | |
|--|-----------------------------|--|
| <u></u> Signature* | <u>Jan 21, 2015</u> Date | <u>Vice President & Treasurer</u> Title |
| <u>James A. Sabala</u> Printed name | | |

*Applications must be signed as follows: Corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application.

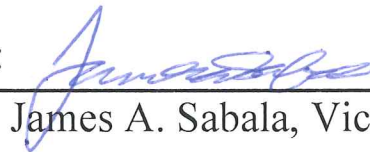
The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

| | | |
|--|-----------------------------|---|
| <u> (as "Project Mgr")</u> Signature of delegated employee | <u>Jan 21, 2015</u> Date | <u>Project Manager</u> Title or function at the facility |
| <u>Dave Holland</u> Printed name | | |

ASSIGNMENT OF DULY AUTHORIZED REPRESENTATIVE

I hereby designate the position of “Project Manager” for Hecla Limited’s Republic Unit as the duly authorized representative for signatory requirements of all reports required by permits and other information requested by the Department of Ecology.

Signature:



James A. Sabala, Vice President & Treasurer – Hecla Limited

SECTION B. PRODUCT INFORMATION

- Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System*, 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (<http://www.census.gov/epcd/naics/frames3.htm>).

Description: THIS INFORMATION HAS BEEN WAIVED IN PAST RENEWALS BY DOE BECAUSE THIS IS AN INACTIVE SITE WITH MINING/MILLING LAST OCCURRING IN 1995, THUS NO PRODUCTS.

- List raw materials and products:

| Type | RAW MATERIALS | Quantity |
|---------------------------|---------------|---------------------------------|
| <i>Potatoes (Example)</i> | | <i>20 million tons per year</i> |
| | | |
| | | |
| | | |
| | | |
| | | |

| Type | PRODUCTS | Quantity |
|-------------------------------|----------|-----------------------------------|
| <i>French fries (Example)</i> | | <i>10 million pounds per year</i> |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1 that generates wastewater, list the process, assign the waste stream a name and ID #, and describe whether it is a batch or continuous flow.

| Process | Waste Stream Name | Waste Stream ID# | Batch (B) or Continuous (C) Process |
|--|--|------------------|-------------------------------------|
| <i>Receiving raw potatoes (Example)</i> | <i>Mud Water</i> | <i>1</i> | <i>C</i> |
| PRODUCTION CEASED IN 1995, THUS NO "PROCESSES". MINE GROUNDWATER AND ASPEN "SEEP" WATER ARE PUMPED TO ASPEN POND FOR EVAPORATION | MINE GROUNDWATER | 1 | Batch |
| " " | ASPEN "SEEP" (includes meteoric water) | 2 | Batch |
| | | | |
| | | | |
| | | | |
| | | | |

2. On a separate sheet, produce a schematic drawing showing production processes and water flow through the facility and wastewater treatment devices (*label as attachment C2*). The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent and should label the treatment units. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a description of the nature and amount of any sources of water and any collection or treatment measures.

3. What is the highest daily discharge flow from the processing facility: ATTACHED gallons per _____
(Specify the time period for the value given)

What is the highest daily discharge flow to the sprayfields/infiltration basin: _____ inches/acre/month OR _____ gallons per day
(Specify the time period for the value given)

What is the highest average monthly discharge flow (daily flows averaged over a month) from the processing facility: _____ gallons/day?
(Specify the time period for the value given)

What is the highest average monthly discharge flow to the sprayfields: _____ inches/acre/month OR _____ gallons per day
(Specify the time period for the value given)

4. Describe any planned wastewater treatment or sprayfield/infiltration improvements and the schedule for the improvements or changes. *(Use additional sheets, if necessary and label as attachment C4.)*

THE DOE APPROVED DOUBLE-LINED GROUNDWATER MANAGEMENT IMPOUNDMENT (GWMI) WAS BUILT (95+% complete) IN 2014 ON HISTORICALLY DISTURBED GROUND. PIPING AND ELECTRICAL WORK, ALONG WITH AN ENHANCED EVAPORATION AREA ALSO ON HISTORICALLY DISTURBED GROUND (currently being engineered by Tetra Tech) IS PLANNED FOR 2015 TO COMPLETE THE GROUNDWATER MANAGEMENT SYSTEM, WHICH IS PLANNED TO BE PUT INTO SERVICE IN 2016.

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each wastestream in gallons or million gallons per month. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper unit by checking one of the following boxes:

☐ gallons per day ☐ gallons per month ☐ million gallons per month

| Waste Stream ID# | MONTHS | | | | | | | | | | | |
|-------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | J | F | M | A | M | J | J | A | S | O | N | D |
| #1 (Example) | 1000 | 1000 | 1000 | 1000 | 6000 | 2000 | 2000 | 2000 | 1000 | 1000 | 5000 | 4000 |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| Estimated total gallons | | | | | | | | | | | | |

6. If this is a discharge from the processing facility to a storage or evaporative lagoon, what is the size of the lagoon (give square footage for the bottom of the lagoon and the total volume of the lagoon at full operating depth). 10,000 square feet; 10 million gallons (Example)

7. Check the applicable box. Is this is a discharge to a sprayfield ☐ or an infiltration bed ☐? Provide the average gallons per acre per day proposed for each month in the following table.

| | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept. | Oct | Nov | Dec |
|------------------------------------|-----|-----|-----|-----|-----|------|------|-----|-------|-----|-----|-----|
| Estimated gallons per acre per day | | | | | | | | | | | | |

8. How many hours a day does this facility typically operate?
inactive site since mining/milling ceased in 1995.

NA - no regular business hours -

How many days a week does this facility typically operate?

NA

How many weeks per year does this facility typically operate?

NA

9. List all incidental materials such as oil, paint, grease, solvents, and cleaners that are used or stored on site (list only those with quantities greater than 10 gallons for liquids and 50 pound quantities for solids). For solvents and solvent-based cleaners, include a copy of the material safety data sheet for each material and estimate the quantity used. *Use additional sheets, if necessary and label as attachment C.7.)*

Materials/Quantity Stored: USED OIL - LESS THAN 275 GALLONS; MOTOR OIL - LESS THAN 50 GALLONS; HYDRAULIC FLUID - LESS THAN 100 GALLONS. ALL STORED INDOORS.

- | | | Yes | No |
|-----|---|-------------------------------------|-------------------------------------|
| 10. | Some types of facilities are required to have spill or waste control plans. Does this facility have: | | |
| a. | A spill prevention, control, and countermeasure plan (40 CFR 112)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. | An Oil Spill Contingency Plan (chapter 173-182 WAC)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. | An emergency response plan (per WAC 173-303-350)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. | A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. | Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: <u>ISGP SWPPP</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. | A solid waste control plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☐ Public system (Specify name) _____

☒ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: 2408

b. Legal description of water source:

NE $\frac{1}{4}$ S, NW $\frac{1}{4}$ S, 18, Section, 36 TWN, 33 R

2. Potable water use

a. Indicate total water use: Gallons per day (average) 0

Gallons per day (maximum) 0

b. Is water metered? ☐ YES ☒ NO

3. Supplemental Irrigation water source(s):

☐ Public system or Irrigation District (Specify name) _____

☐ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: _____

b. Legal description of water source:

_____ $\frac{1}{4}$ S, _____ $\frac{1}{4}$ S, _____, Section, _____ TWN, _____ R

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SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

Intake: NOT MEASURED - NATURAL GROUNDWATER INFLOW (MINE GROUNDWATER) & SEEP/METEORIC/GROUNDWATER (APSEN SEEP)

Effluent ABOVE FLOWS ARE PUMPED TO ASPEN POND FOR EVAPORATION - MINE GROUNDWATER MEASURED BY FLOWMETER & ASPEN SEEP BY HOUR METER & PHYSICAL MEASUREMENT (neither is a traditional "effluent" or "wastewater")

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including E. coli), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)), or volatile organics.

ALL SAMPLES ARE GRAB SAMPLES TAKEN FOR THE CURRENT PERMIT - PER ITEM 3 BELOW, LAB ANALYSIS SHEETS ARE ATTACHED FOR THE MONITORING CONDUCTED IN 2014.

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☒ YES ☐ NO
If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. (*Note: Ecology may require additional testing.*)

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method **or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.**

| X | Parameter | Measurement Values | | | Number of Analyses | Analytical Method Std. Methods 19 th , 20 th edition or EPA | Detection Limit/Quantitation Level |
|---|-----------------------------------|--------------------|---------|---------|--------------------|---|------------------------------------|
| | | Minimum | Maximum | Average | | | |
| | BOD (5 day) | | | | | SM 5210 B | /2 mg/l |
| | COD | | | | | SM 5220 D | /10 mg/l |
| | Total suspended solids | | | | | SM 2540 D | /5 mg/l |
| | Fixed Dissolved Solids | | | | | SM 2540 E | |
| | Total dissolved solids | | | | | SM 2540 C | |
| | Conductivity (micromhos/cm) | | | | | SM 2510 B | |
| | Ammonia-N as N | | | | | SM 4500-NH ₃ C | /0.3 mg/L |
| | pH | | | | | SM 4500-H | 0.1 standard units |
| | Fecal coliform (organisms/100 mL) | | | | | SM 9221 E or 9222 D | |
| | Total coliform (organisms/100 mL) | | | | | SM 9221 B or 9222 B | |
| | Dissolved oxygen | | | | | SM 4500-O C/G | |
| | Nitrate + nitrite-N as N | | | | | SM 4500-NO ₃ E | 100 µg/L |
| | Total kjeldahl N as N | | | | | SM 4500-N _{org} C/E/FG | 300 µg/l |
| | Ortho-phosphate-P as P | | | | | SM 4500-P E/F | 10 µg/l |
| | Total-phosphorous-P as P | | | | | SM 4500-P E/P/F | 10 µg/l |
| | Total Oil & grease | | | | | EPA 1664A | 1.4/5 mg/l |
| | NWTPH - Dx | | | | | Ecology NWTPH Dx | 250/250 µg/l |
| | NWTPH - Gx | | | | | Ecology NWTPH Gx | 250/250 µg/l |
| | Calcium | | | | | EPA 200.7 | 10 µg/l |
| | Chloride | | | | | SM 4500-Cl C | 0.15 µg/l |
| | Fluoride | | | | | SM 4500-F E | .025/0.1 mg/l |
| | Magnesium | | | | | EPA 200.7 | 10/50 µg/l |

| X | Parameter | Measurement Values | | | Number of Analyses | Analytical Method Std. Methods 19 th , 20 th edition or EPA | Detection Limit/Quantitation Level |
|---|---------------------------------|--------------------|---------|---------|--------------------|---|------------------------------------|
| | | Minimum | Maximum | Average | | | |
| | Potassium | | | | | EPA 200.7 | 700/ µg/l |
| | Sodium | | | | | EPA 200.7 | 29/ µg/l |
| | Sulfate | | | | | SM 4500-SO ₄ C/D | /200 µg/l |
| | Alkalinity as CaCO ₃ | | | | | SM 2320 B | /5 mg/L as CaCO ₃ |
| | Arsenic(total) | | | | | EPA 200.8 | 0.1/0.5 µg/l |
| | Barium (total) | | | | | EPA 200.8 | 0.5/2 µg/l |
| | Cadmium (total) | | | | | EPA 200.8 | .05/ .25 µg/l |
| | Chromium (total) | | | | | EPA 200.8 | 0.2/1 µg/l |
| | Copper (total) | | | | | EPA 200.8 | 0.4/2 µg/l |
| | Iron (total) | | | | | EPA 200.7 | 12.5/50 µg/l |
| | Lead (total) | | | | | EPA 200.8 | 0.1/ .5 µg/l |
| | Manganese (total) | | | | | EPA 200.8 | 0.1/0.5 µg/l |
| | Mercury (total) pg/L | | | | | EPA 1631E | 0.2/0.5 pg/l |
| | Molybdenum(total) | | | | | EPA 200.8 | 0.1/0.5 µg/l |
| | Nickel(total) | | | | | EPA 200.8 | 0.1/0.5 µg/l |
| | Selenium (total) | | | | | EPA 200.8 | 1/1 µg/l |
| | Silver (total) | | | | | EPA 200.8 | .04/ .2 µg/l |
| | Zinc (total) | | | | | EPA 200.8 | 0.5/2.5 µg/l |

Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.

Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to $(1, 2, \text{ or } 5) \times 10^n$, where n is an integer. (64 FR 30417).

ALSO GIVEN AS:

The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).

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5. Does this facility use any of the following chemicals as raw materials in production, produce them as part of the manufacturing process, or are they present in the wastewater? (*The number following the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.*) ☒ YES ☐ NO

If yes, specify how the chemical is used and the quantity used or produced (*Use additional sheets, if necessary and label as attachment E5.*): OPERATOINS CEASED IN 1995. ARSENIC IS NOT A CHEMICAL USED AT THIS SITE. IT IS FOUND NATURALLY IN THIS HIGHLY MINERALIZED AREA. ARSENIC HAS BEEN DETECTED (SEE ATTACHED E.4) IN PERMIT MONITORING.

Acrylamide/79-06-1
 Acrylonitrile/107-13-1
 Aldrin/309-00-2
 Aniline/62-53-3
 Aramite/140-57-8
 Arsenic/7440-38-2
 Azobenzene/103-33-3
 Benzene/71-43-2
 Benzidine/92-87-5
 Benzo(a)pyrene/50-32-8
 Benzotrichloride/98-07-7
 Benzyl chloride/100-44-7
 Bis(chloroethyl)ether/111-44-4
 Bis(chloromethyl)ether/542-88-1
 Bis(2-ethylhexyl) phthalate/ 117-81-7
 Bromodichloromethane/75-27-4
 Bromoform/75-25-2
 Carbazole/86-74-8
 Carbon tetrachloride/56-23-5
 Chlordane/57-74-9
 Chlorodibromomethane/124-48-1
 Chloroform/67-66-3
 Chlorthalonil/1897-45-6
 2,4-D/94-75-7
 DDT/50-29-3
 Diallate/2303-16-4
 1,2 Dibromoethane/106-93-4
 1,4 Dichlorobenzene/106-46-7
 3,3' Dichlorobenzidine/91-94-1
 1,1 Dichloroethane/75-34-3
 1,2 Dichloroethane/107-06-2

Nitrofurazone/59-87-0
 N-nitrosodiethanolamine/ 1116-54-7
 N-nitrosodiethylamine/55-18-5
 N-nitrosodimethylamine/62-75-9
 N-nitrosodiphenylamine/86-30-6
 N-nitroso-di-n-propylamine/ 621-64-7
 N-nitrosopyrrolidine/930-55-2
 N-nitroso-di-n-butylamine/ 924-16-3
 N-nitroso-n-methylethylamine/
 10595-95-6
 PAH/NA
 PBBs/NA
 PCBs/1336-36-3
 1,2 Dichloropropane/78-87-5
 1,3 Dichloropropene/542-75-6
 Dichlorvos/62-73-7
 Dieldrin/60-57-1
 3,3' Dimethoxybenzidine/119-90-4
 3,3 Dimethylbenzidine/119-93-7
 1,2 Dimethylhydrazine/540-73-8
 2,4 Dinitrotoluene/121-14-2
 2,6 Dinitrotoluene/606-20-2
 1,4 Dioxane/123-91-1
 1,2 Diphenylhydrazine/122-66-7
 Endrin/72-20-8
 Epichlorohydrin/106-89-8
 Ethyl acrylate/140-88-5
 Ethylene dibromide/106-93-4
 Ethylene thioureae/96-45-7
 Folpet/133-07-3
 Fumecyclohex/60568-05-0

Heptachlor/76-44-8
 Heptachlor epoxide/1024-57-3
 Hexachlorobenzene/118-74-1
 Hexachlorocyclohexane (alpha)/
 319-84-6
 Hexachlorocyclohexane (tech.)/
 608-73-1
 Hexachlorodibenzo-p-dioxin,
 mix/19408-74-3
 Hydrazine/hydrazine sulfate/ 302-01-2
 Lindane/58-89-9
 2 Methylaniline/100-61-8
 2 Methylaniline hydrochloride/
 636-21-5
 4,4' Methylene
 bis(N,N- dimethyl)aniline/101-61-1
 Methylene chloride
 (dichloromethane)/75-09-2
 Mirex/2385-85-5
 O-phenylenediamine/106-50-3
 Propylene oxide/75-56-9
 2,3,7,8-Tetrachlorodibenzo-p-dioxin/
 1746-01-6
 Tetrachloroethylene/127-18-4
 2,4 Toluenediamine/95-80-7
 o-Toluidine/95-53-4
 Toxaphene/8001-35-2
 Trichloroethylene/79-01-6
 2,4,6-Trichlorophenol/88-06-2
 Trimethyl phosphate/512-56-1
 Vinyl chloride/75-01-4

6. Are any other pesticides, herbicides, or fungicides used at this facility? ☐ YES ☒ NO

If yes, specify the material and quantity used.

7. Are there other pollutants that you know of or believe to be present? ☒ YES ☐ NO

If yes, specify the pollutants and their concentration if known
(attach laboratory analyses if available). SEE THE ATTACHED LAB ANALYSIS SHEETS FOR
PERMIT MONITORING OF MINE GROUNDWATER AND ASPEN SEEP CONDUCTED IN
2013 & 2014. ☐ DON'T KNOW

SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____

(*example AAB123*)

Latitude: _____

Well ID # 94-1; 94-2; & 10-1 DG (all information previously submitted to DOE) (*example MW-1*)

Longitude: _____

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|-----------------------------------|---|-----------------------|--------------------|-------------------|-----------------|
| BOD (5 day) | mg/L | | | | |
| COD | mg/L | | | | |
| Total organic carbon | mg/L | | | | |
| Total dissolved solids | mg/L | | | | |
| Dissolved Fixed Solids | mg/L | | | | |
| pH | Standard units | | | | |
| Conductivity | (micromhos/cm) | | | | |
| Alkalinity | mg/L as CaCO ₃ | | | | |
| Total hardness | mg/L | | | | |
| Fecal coliform | organisms/100mL | | | | |
| Total coliform | organisms/100mL | | | | |
| Dissolved oxygen | mg/L | | | | |
| Ammonia-N | mg/L | | | | |
| Nitrate + nitrite-N, nitrate as N | mg/L | | | | |
| Total kjeldahl N as N | mg/L | | | | |
| Ortho-phosphate-P as P | mg/L | | | | |
| Total-phosphate-P as P | mg/L | | | | |
| Total Oil and Grease | mg/L | | | | |
| Total petroleum hydrocarbon | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Calcium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Chloride | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Fluoride | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Magnesium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Potassium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Sodium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Sulfate | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Barium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Cadmium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Chromium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Copper | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Iron | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Lead | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Manganese | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |

| Parameter | Units | Range of Measurements | Number of Analyses | Analytical Method | Detection Limit |
|--|---|-----------------------|--------------------|-------------------|-----------------|
| Mercury | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Selenium | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Silver | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Zinc | <input type="checkbox"/> mg/L <input type="checkbox"/> µg/l | | | | |
| Depth to water level (to the nearest .01 feet) | | | | | |

SECTION G. SITE ASSESSMENT

The local library and local city or county planning offices may be helpful in providing the information required in this section. You may consult the Department of Ecology Water Resources Program to help identify wells within one mile of your site.

1. Land Application Sites: Provide the information below for each land application site. Provide the latitude/longitude (approximate center of the site; NAD83/WGS84 reference datum.) Attach a copy of the contract(s) authorizing use of any private land(s) used for each treatment site. Add table rows as necessary.

| | | | |
|--|-----------|---------|-------|
| Legal Description (section/township/range) n/a - no land application | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |
| Legal Description (section/township/range) | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |
| Legal Description (section/township/range) | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |
| Legal Description (section/township/range) | | | |
| Latitude | Longitude | Acreage | Owner |
| | | | |

2. If this is a new discharge, list all environmental control permits or approvals needed for this project; for example, SEPA review, engineering reports, hydrogeologic reports, , , or air emissions permits.

3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map and aerial photograph(s) from an internet mapping site that shows the processing facility and sprayfield site(s). **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206 588-5222), some local bookstores, and internet sites.** Show the following on this map:
 - a. Location and name of internal and adjacent streets.
 - b. Surface water drainage systems within ¼ mile of the site.
 - c. All wells within 1 mile of the site.
 - d. Wastewater discharge points.
 - e. Land uses and zoning adjacent to the wastewater application site.
 - f. Groundwater gradient.
4. Describe the soils on the site using information from local soil survey reports. **Soils information is available from your local County Conservation District or from information contained in the sites hydrogeologic report.** *(Submit on separate sheet and label as attachment G.4.)*
5. Describe the local geology and hydrogeology within one mile of the site. Include any groundwater quality data. **The local library or local Soil Conservation Service may have this information.** *(Submit on separate sheet and label as attachment G.5.)*
6. List the names and addresses of contractors or consultants who provided information and cite sources of information by title and author.

SECTION H. STORMWATER

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General permit? ☒ YES ☐ NO
If yes, please list the permit number here. WAR001539

If no, have you applied for coverage under the Washington State Industrial Stormwater NPDES general permit? ☐ YES ☐ NO

Note: If you answered "no" to both questions above, complete the following questions 2 through 8.

2. Describe the size of the stormwater collection area.
- a. Unpaved area _____ sq.ft.
 - b. Paved area _____ sq.ft.
 - c. Other collection areas (roofs) _____ sq.ft.
3. Does your facility's stormwater discharge to: *(Check all that apply)*
- ☐ Storm sewer system; name of storm sewer system *(operator)*:
 - ☐ Sanitary sewer
 - ☐ Directly to surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean)*.
Specify waterbody name _____
 - ☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first)*.
 - ☐ Directly to ground waters of Washington State via:
 - ☐ Dry well
 - ☐ Drainfield
 - ☐ Other
4. Areas with industrial activities at facility: *(check all that apply)*
- ☐ Manufacturing building
 - ☐ Material handling
 - ☐ Material storage
 - ☐ Hazardous waste treatment, storage, or disposal *(refers to RCRA, Subtitle C facilities only)*
 - ☐ Waste treatment, storage, or disposal
 - ☐ Application or disposal of wastewaters
 - ☐ Storage and maintenance of material handling equipment
 - ☐ Vehicle maintenance
 - ☐ Areas where significant materials remain
 - ☐ Access roads and rail lines for shipping and receiving
 - ☐ Other _____

5. Material handling/management practices

a. Types of materials handled and/or stored outdoors: *(check all that apply)*

- | | |
|--|---|
| <input type="checkbox"/> Solvents | <input type="checkbox"/> Hazardous wastes |
| <input type="checkbox"/> Scrap metal | <input type="checkbox"/> Acids or alkalies |
| <input type="checkbox"/> Petroleum or petrochemical products | <input type="checkbox"/> Paints/coatings |
| <input type="checkbox"/> Plating products | <input type="checkbox"/> Woodtreating products |
| <input type="checkbox"/> Pesticides | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

b. Identify existing management practices employed to reduce pollutants in industrial storm water discharges: *(check all that apply)*

- | | |
|--|---|
| <input type="checkbox"/> Oil/water separator | <input type="checkbox"/> Detention facilities |
| <input type="checkbox"/> Containment | <input type="checkbox"/> Infiltration basins |
| <input type="checkbox"/> Spill prevention | <input type="checkbox"/> Operational BMPs |
| <input type="checkbox"/> Surface leachate collection | <input type="checkbox"/> Vegetation management |
| <input type="checkbox"/> Overhead coverage | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

6. Attach a map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand drawn map if no other site map is available. Label this as attachment H.8.

SECTION I. OTHER INFORMATION

1. Describe liquid or solid wastes generated that are not disposed of in the waste stream(s) and describe the method of disposal. For each type of waste, provide type of waste, name, address, and phone number of hauler.

THE SITE REMAINS INACTIVE - THIS SECTION WAIVED BY DOE IN PAST RENEWALS.

2. Describe any storage areas used for raw materials, products, and wastes.

Summary of attachments that may be required for this application:

(Please check those attachments that are included)

- ☒ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☐ C.7. Additional incidental materials
- ☐ E.4. Additional results of effluent testing
- ☐ G.1. Copies of land use contracts
- ☐ G.3. USGS topographical map
- ☐ G.4. Soils description
- ☐ G.5. Local geology and hydrology
- ☐ H.8. Stormwater drainage map

If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.