



Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the 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: Group14 Technologies, Inc.

2. Facility Name: Battery Active Materials Factory #2 (BAM-2)
(if different from Applicant)

3. Applicant Mail Address: 13431 Wheeler Road NE
Street

Moses Lake, WA 98837
City/State Zip

4. Facility Location Address: 13431 Wheeler Road NE
(if different from 3 above) Street

Moses Lake, WA 98837
City/State Zip

5. UBI No. 604-020-416
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 facility as decimal degrees (NAD83/WGS84):
47.127940 / -119.207614

FOR OFFICE USE ONLY		Check One: New/Renewal <input type="checkbox"/> Modification <input type="checkbox"/>	
Date Application Received _____	Date Fee Paid _____	Application/ Permit No. _____	Date Application Accepted _____

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

Paul Stenhouse

Name

Environmental Manager

Title

(509) 761-2934

Telephone number

pstenhouse@group14.technology

Fax number

8. Check One:

Permit Renewal (including renewal of temporary permits)

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.

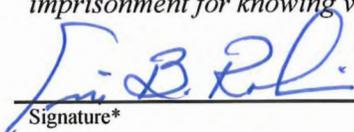
Permit Modification

Existing Unpermitted Discharge

Proposed Discharge

Anticipated date of discharge: 02/15/2024

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.



Signature*

9-Oct-2023

Date

Chief Operating Officer

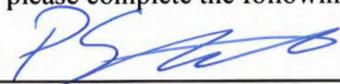
Title

Eric Robinson

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:



Signature of delegated employee

9 OCT 23

Date

Environmental Manager

Title or function at the facility

Paul Stenhouse

Printed name

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:

Commercial manufacturing of lithium ion battery materials.
 NAICS 335991 - Carbon and Graphite Product Manufacturing, SIC 3624

The phenolic monomer, nitrogenous crosslinker and a silicon containing gas are the primary process inputs. The phenolic monomer and nitrogenous crosslinker are mixed in static mixers and moved onto feeders. From the feeders, the two materials flow into a common hopper to be blended. Once blended the materials are transferred through the carbonization kiln on trays. The trays pass through the kiln and pass through a cooling process, with non-contact cooling water supplied by a module cooling tower.

The product then enters a multi-stage grinding process where it is reduced to the desired particle size. The product is conveyed to the compounding reactor.

Upon exiting the compounding reactor, the product is evaluated for quality. Product meeting the quality specifications then passes to a vibratory screener where oversize material is removed.

The final stage of the process is bag filling. The filled bags are moved along on the roller conveyor to the checking and sealing station where they are heat sealed. The sealed bag moves to a standby station and then to a final pickup station where a forklift moves it to the storage room. Trucks back up to the end of the module at the final product storage room. Forklifts load the bags onto the trucks.

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
phenolic monomer		12,000 metric tons per year (MT/yr)
nitrogenous crosslinker		4,000 MT/yr
silicon-containing gas		3,000 MT/yr
carbon-containing gas		400 MT/yr
Type	PRODUCTS	Quantity
<i>Grape Juice(Example)</i>		<i>300,000 gallons per year</i>
silicon-carbon composite		2,000 MT/yr from each module

Note: None of the above-listed raw materials or products will be present in wastewater discharges.

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 an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Steam Module 1	Boiler Blowdown	10	C
Steam Module 2	Boiler Blowdown	11	C
Reverse Osmosis (RO)	RO Reject	6	B
Cooling Tower	Cooling Tower Blowdown	13	C
Domestic Water Use	Domestic Water Use	4	C
Utility Building Sump	Utility Building Sump	16	B
HVAC Module 1 & 2	HVAC Blowdown	15	C (Seasonal)

2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. *(See the example on page 16 of this application form.)* See BAM2 Water Balance PFD at the end of this application.
3. What is the maximum daily wastewater discharge flow? 100,000 gallons/day
- What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 89,496 gallons/day
4. Describe any planned wastewater treatment improvements or changes in wastewater disposal methods, and the schedule for these improvements. *(Use additional sheets, if necessary and label as attachment C4.)*

Not applicable

5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow 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
HVAC Blowdown (Module 1 & 2)	N/A	N/A	N/A	N/A	5,760	5,760	5,760	5,760	5,760	5,760	N/A	N/A
Cooling Tower Blowdown	22,896	22,896	22,896	22,896	22,896	22,896	22,896	22,896	22,896	22,896	22,896	22,896
RO Reject	47,376	47,376	47,376	47,376	47,376	47,376	47,376	47,376	47,376	47,376	47,376	47,376
Boiler Blowdown Module 1	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152
Boiler Blowdown Module 2	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152	1,152
Utility Building Sump	432	432	432	432	432	432	432	432	432	432	432	432
Estimated Total Monthly Flow (GPD)	73,008	73,008	73,008	73,008	78,768	78,768	78,768	78,768	78,768	78,768	73,008	73,008

6. How many hours a day does this facility typically operate? 24
- How many days a week does this facility typically operate? 7
- How many weeks per year does this facility typically operate? 52 (pending shutdowns)

7. 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 pounds for solids*). For solvents and solvent-based cleaners, include a copy of the material safety data sheet and estimate the quantity used. (*Use additional sheets, if necessary, and label as attachment C.7.*)

Materials/Quantity Stored:

None identified

- | 8. | Some types of facilities are required to have spill or waste control plans. Does this facility have: | Yes | No |
|----|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| a. | A spill prevention, control, and countermeasure plan (40 CFR 112)? | <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input 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>Spill response plan</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. | A solid waste control plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. | A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

Public System (Specify) City of Moses Lake

Private Well

Surface Water

a. Water Right Permit Number: N/A

b. Legal Description of Water Source

 ¼S, ¼E, , Section, TWN, R

2. Potable water use

a. Indicate total water use 210,000 GPD

Gallons per day (average) 210,000 GPD

Gallons per day (maximum)

b. Is water metered?

YES NO

SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?
 Intake: Flow Meter
 Effluent Flow Meter
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. Grab samples unless otherwise specified.

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.

Estimated wastewater characteristics:

Wastewater Characterization Table	GPM (Normal)	GPD (Normal)	TDS (mg/L)	BOD (mg/L) ¹	COD (mg/L) ¹	TSS (mg/L) ¹
Cooling Tower Blowdown	15.9	22,896	871	< 300	*	< 350
RO Reject	32.9	47,376	1074	< 300	*	< 350
Boiler Blowdown Module 1	0.8	1,152	875	< 300	*	< 350
Boiler Blowdown Module 2	0.8	1,152	875	< 300	*	< 350
HVAC Blowdown (Module 1 & 2)	4.0	5,760	1290	< 300	*	< 350
Utility Building Sump	0.3	432	1074	< 300	*	< 350
WW Tank Outlet	54.7	78,768	1025	< 300	*	< 350

ECY 040-1
 1 - Not expecting any addition of BOD, COD and TSS above acceptable limits.

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			1200 mg/L		SM 2540 C	
Conductivity (micromhos/cm)					SM 2510 B	
Ammonia-N as N					SM 4500-NH ₃ C	/0.3 mg/L
pH	6	10			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/F/G	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
Potassium					EPA 200.7	700/ µg/l
Sodium					EPA 200.7	29/ µg/l
Sulfate					SM 4500-SO ₄ Cl/D	/200 µg/l
Arsenic(total)					EPA 200.8	0.1/0.5 µg/l

Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 th , 20 th edition or EPA	Detection Limit/Quantitation Level
	Minimum	Maximum	Average			
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
Lead (total)					EPA 200.8	0.1/.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

6. Does this facility use any of the following chemicals as raw materials or produce them as part of the manufacturing process, or are they present in the wastewater? YES NO

(The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.)

If yes, specify how the chemical is used and the quantity used or produced:

The following chemicals used at the BAM Facility include:

Chemical	How is Chemical Used?	Quantity of Chemical Used	Quantity of Chemical Produced
NexGuard™ 22310	Boiler system scale/corrosion inhibitor	1650 lbs/yr	n/a
3D TRASAR™ 3DT465	Cooling water system scale/corrosion inhibi	3300 lbs/yr	n/a
PermaTreat™ PC-510T	RO system scale inhibitor	1241 lbs/yr	n/a
Tri-ACT™ 1820	Boiler condensate corrosion inhibitor	1100 lbs/yr	n/a
STABREX™ ST70	Cooling water system oxidizing biocide	1071 lbs/yr	n/a
NALCO® BC1011	Boiler system oxygen scavenger	1582 lbs/yr	n/a
NALCO® 8735	RO system alkalinity control	550 lbs/yr	n/a
NALCO® 7408	RO system dechlorination	1650 lbs/yr	n/a
NALCO® 2597	Wastewater Neutralization Acid	750 lbs/yr (Estimated)	n/a
NALCO® 8735	Wastewater Neutralization Base	500 lbs/yr (Estimated)	n/a
3D TRASAR™ 3DT186	Cooling water system scale/corrosion inhibi	1650 lbs/yr (Estimated)	n/a

NALCO evaluated treatment chemicals for decay/dissociation products - none identified against the tables below.

METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total	7440-36-0	Nickel, Total	7440-02-0
Arsenic, Total	7440-38-2	Selenium, Total	7782-49-2
Beryllium, Total	7440-41-7	Silver, Total	7440-22-4
Cadmium, Total	7440-43-9	Thallium, Total	7440-28-0
Chromium (hex) dissolved	18540-29-9	Zinc, Total	7440-66-6
Chromium, Total	7440-47-3		
Copper, Total	7440-50-8	Cyanide, Total	57-12-5
Lead, Total	7439-92-1	Cyanide, Weak Acid Dissociable	
Mercury, Total	7439-97-6)	Phenols, Total	

PESTICIDES			
Aldrin	309-00-2	Endrin	72-20-8
alpha-BHC	319-84-6	Endrin Aldehyde	7421-93-4
beta-BHC	319-85-7	Heptachlor	76-44-8
gamma-BHC	58-89-9	Heptachlor Epoxide	1024-57-3
delta-BHC	319-86-8	PCB-1242	53469-21-9
Chlordane	57-74-9	PCB-1254	11097-69-1
4,4'-DDT	50-29-3	PCB-1221	11104-28-2
4,4'-DDE	72-55-9	PCB-1232	11141-16-5
4,4' DDD	72-54-8	PCB-1248	12672-29-6
Dieldrin	60-57-1	PCB-1260	11096-82-5
alpha-Endosulfan	959-98-8	PCB-1016	12674-11-2
beta-Endosulfan	33213-65-9	Toxaphene	8001-35-2
Endosulfan Sulfate	1031-07-8		

VOLATILE COMPOUNDS			
Acrolein	107-02-8		
Acrylonitrile	107-13-1	1,1-Dichloroethylene	75-35-4
Benzene	71-43-2	1,2-Dichloropropane	78-87-5
Bromoform	75-25-2	1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)	542-75-6
Carbon tetrachloride	56-23-5	Ethylbenzene	100-41-4
Chlorobenzene	108-90-7	Methyl bromide (Bromomethane)	74-83-9
Chloroethane	75-00-3	Methyl chloride (Chloromethane)	74-87-3
2-Chloroethylvinyl Ether	110-75-8	Methylene chloride)	75-09-2
Chloroform	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Dibromochloromethane	124-48-1	Tetrachloroethylene	127-18-4
1,2-Dichlorobenzene	95-50-1	Toluene (108-88-3)	
1,3-Dichlorobenzene	(541-73-1)	1,2-Trans-Dichloroethylene (Ethylene dichloride)	156-60-5
1,4-Dichlorobenzene	106-46-7	1,1,1-Trichloroethane	71-55-6
Dichlorobromomethane	75-27-4	1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3	Trichloroethylene	79-01-6
1,2-Dichloroethane	107-06-2	Vinyl chloride	75-01-4

ACID COMPOUNDS			
2-Chlorophenol	95-57-8	4-nitrophenol	100-02-7
2,4-Dichlorophenol	120-83-2	Parachlorometa cresol (4-chloro-3-methylphenol)	59-50-7
2,4-Dimethylphenol	105-67-9	Pentachlorophenol	87-86-5
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	534-52-1	Phenol	108-95-2
2,4 dinitrophenol	51-28-5	2,4,6-Trichlorophenol	88-06-2
2-Nitrophenol	88-75-5		

BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene	83-32-9	3,3-Dichlorobenzidine	91-94-1
Acenaphthylene	208-96-8	Diethyl phthalate	84-66-2
Anthracene	120-12-7	Dimethyl phthalate	131-11-3
Benzidine	92-87-5	Di-n-butyl phthalate)	84-74-2
Benzyl butyl phthalate	85-68-7	2,4-dinitrotoluene	121-14-2
Benzo(a)anthracene	56-55-3	2,6-dinitrotoluene	606-20-2
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	Di-n-octyl phthalate	117-84-0
Benzo(j)fluoranthene	205-82-3	1,2-Diphenylhydrazine (as <i>Azobenzene</i>)	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
Benzo(r,s,t)pentaphene	189-55-9	Fluorene	86-73-7
Benzo(a)pyrene	50-32-8	Hexachlorobenzene	118-74-1
Benzo(ghi)Perylene	191-24-2	Hexachlorobutadiene	87-68-3
Bis(2-chloroethoxy)methane	111-91-1	Hexachlorocyclopentadiene	77-47-4
Bis(2-chloroethyl)ether	111-44-4	Hexachloroethane	67-72-1
Bis(2-chloroisopropyl)ether	39638-32-9	Indeno(1,2,3-cd)Pyrene	193-39-5
Bis(2-ethylhexyl)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	3-Methyl cholanthrene	56-49-5
2-Chloronaphthalene	91-58-7	Naphthalene	91-20-3
4-Chlorophenyl phenyl ether	7005-72-3	Nitrobenzene	98-95-3
Chrysene	218-01-9	N-Nitrosodimethylamine	62-75-9
Dibenzo (a,j)acridine	224-42-0	N-Nitrosodi-n-propylamine	621-64-7
Dibenzo (a,h)acridine	226-36-8	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-h)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	Perylene	198-55-0
Dibenzo(a,e)pyrene	192-65-4	Phenanthrene	85-01-8
Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0
		1,2,4-Trichlorobenzene	120-82-1

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

If yes, specify the material and quantity used:

Sporadic, seasonal, small-quantity use of insecticides and herbicides is expected, but insecticides and herbicides will not be present in wastewater discharges.

8. 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 as Attachment E8):

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

YES NO DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste (check appropriate box)?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste Dangerous Waste Number(s) _____

Characteristic Wastes Dangerous Waste Number(s) _____

Ignitable

Reactive

Corrosive

TCLP

State Only Dangerous Wastes Dangerous Waste Number(s) _____

Toxicity

Persistent

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue (425) 649-7000

Southwest Regional Office - Lacey (360) 407-6300

Central Regional Office - Yakima (509) 575-2490

Eastern Regional Office - Spokane (509) 329-3400

SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? YES NO
If yes, attach a map or hand drawing of the facility that shows the location of these structures (Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your facility.)

See attachment of wastewater system drawings attachment F1. Sampling manhole as MH-12.

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.
 1. SEPA Mitigated Determination of Non-Significance, received from the City of Moses Lake on February 6, 2023.
 2. Coverage under the Construction Stormwater General Permit Number WAR312216, effective March 6, 2023 and expiring on December 31, 2025.
 3. Department of Ecology, Approval Order No. 23AQ-012, AQPID, A0250325

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. _____

If no, have you applied for a Washington State Stormwater Industrial Stormwater General Permit? YES NO

If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

To storm sewer system *(provide name of storm sewer system operator: _____)*

Directly to any surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean).*

Specify waterbody name(s) _____

Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first).*

To a Sanitary Sewer

Directly to ground waters of Washington State via:

Dry well

Drainfield

Other: On-site stormwater detention pond with stormwater discharge to ground.

3. 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 (please specify): _____

4. Material handling/management practices

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

- | | |
|--------------------------------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Solvents | <input checked="" type="checkbox"/> Hazardous Wastes |
| <input checked="" type="checkbox"/> Scrap Metal | <input checked="" 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 stormwater discharges: *(check all that apply)*

- | | |
|-------------------------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Oil/Water Separator | <input type="checkbox"/> Detention Facilities |
| <input checked="" type="checkbox"/> Containment | <input checked="" type="checkbox"/> Infiltration Basins |
| <input checked="" type="checkbox"/> Spill Prevention | <input checked="" type="checkbox"/> Operational BMPs |
| <input type="checkbox"/> Surface Leachate Collection | <input checked="" type="checkbox"/> Vegetation Management |
| <input checked="" type="checkbox"/> Overhead Coverage | <input type="checkbox"/> Other <i>(please list):</i> _____ |

5. Attach a facility site 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 *(See example on page 16 of this application)*. Label this as attachment H.5.

See Site Map at the end of this application.

SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated by your facility that are not disposed of in the waste stream(s) and how they are being disposed of. For each type of waste, provide type of waste and the name, address, and phone number of the hauler.

Waste sludges/liquids from outdoor containment structures will be picked up and disposed by Graymar Environmental located at 601 S. Pioneer Way, Ste F218 in Moses Lake, WA 98837, phone number (866) 472-9627.

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

Materials, products, and wastes will be stored inside buildings to provide cover and containment.

3. Have you designated the wastes described above according to the applicable YES NO procedures of Dangerous Waste Regulations, Chapter 173-303 WAC?

SECTION J. CERTIFICATIONS

1. Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]

I approve of the discharge as described in this application. The applicant is:

(Please check the appropriate box below.)

- A Significant Industrial User (see Definitions at the end of this Section)
- A Categorical Industrial User
- Neither of the above

Name and location of sewer system to which this project will be tributary:

Dunes Wastewater Treatment Plant
1801 Road K SE
Moses Lake, WA 98837

Treatment Works Owner: The City of Moses Lake
Street: P.O. Box 1579
City/State: Moses Lake, WA Zip: 98837

Signature of Treatment Works Authority Date Title

Printed Name

2. Application review by Intermediate Sewer Owner at point of discharge (if applicable)

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.

Name and location of sewer system to which this project will be tributary:

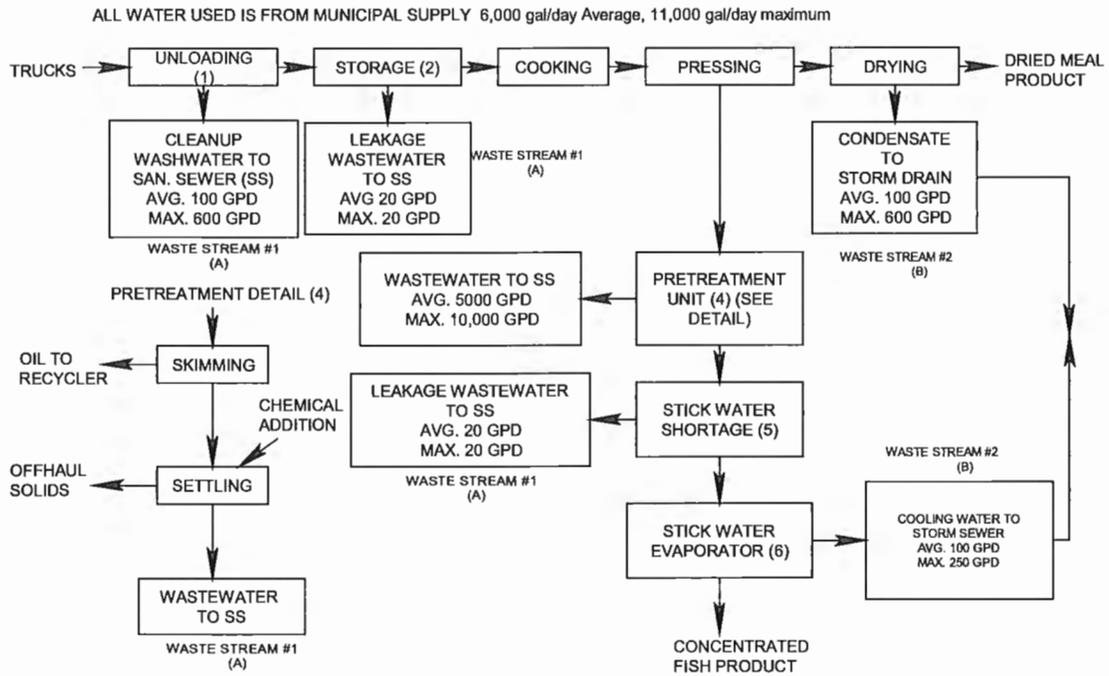
Not applicable

Sewer System Owner: _____
Street: _____
City/State: _____ Zip: _____

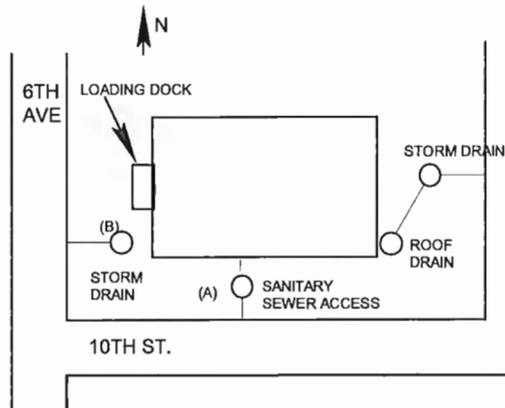
Signature of Sewer System Authority Date Title

Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)



Example 2 for application section F1 or H8 (FACILITY SITE MAP)



DEFINITIONS

Significant Industrial User (SIU)--

- 1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and
- 2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

Control Authority - means the Washington State Department of Ecology in the case of non-delegated POTWs or means the POTW in the case of delegated POTWs.

Categoric Industrial User (CIU): An industrial user subject to national categorical pretreatment standards promulgated by EPA (40 CFR 403.6 and 40 CFR parts 405-471).

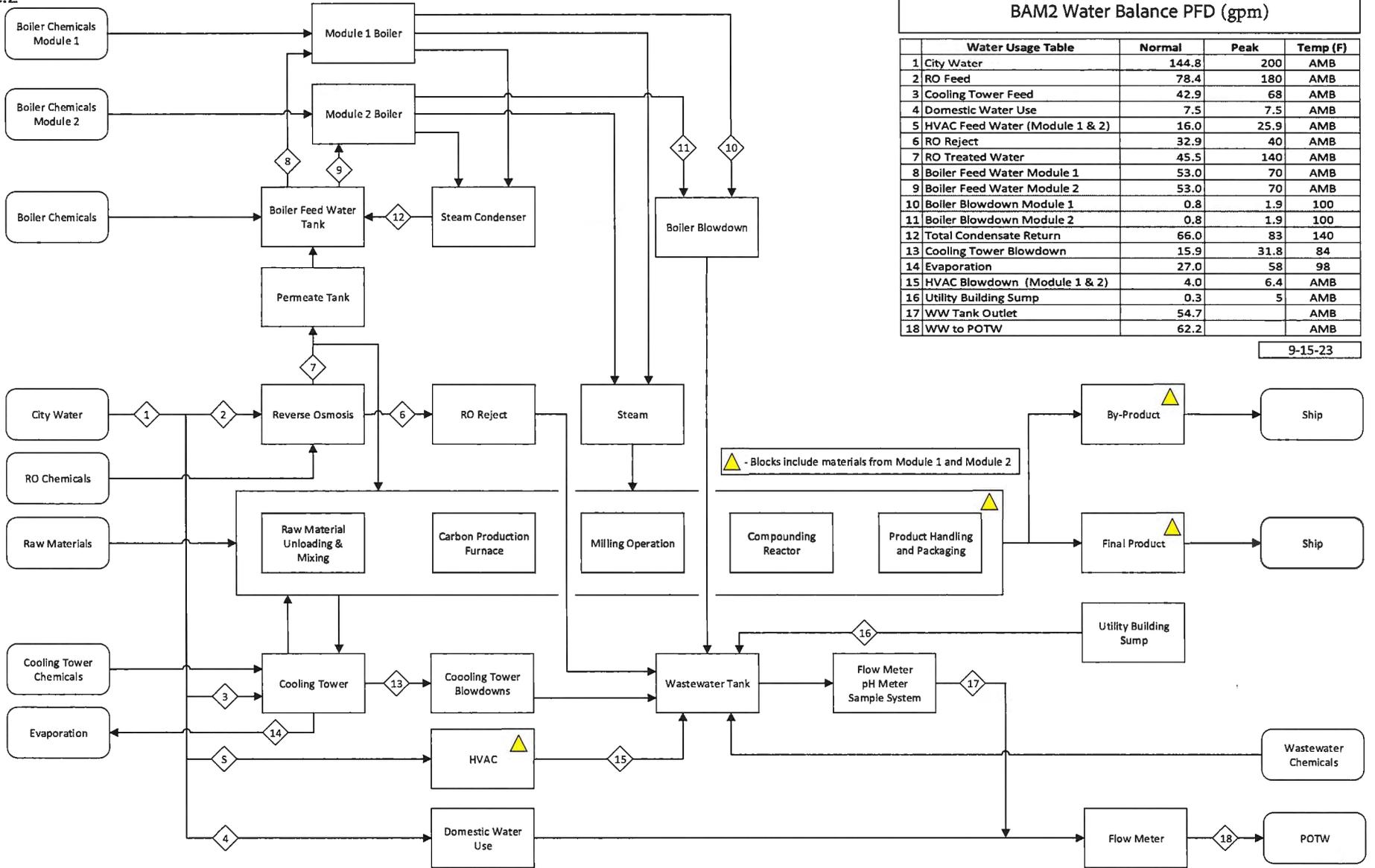
Summary of Attachments That May be Required for This Application:

(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.8. Additional results of effluent testing
- F.1. Facility site map
- H.5. Stormwater drainage map

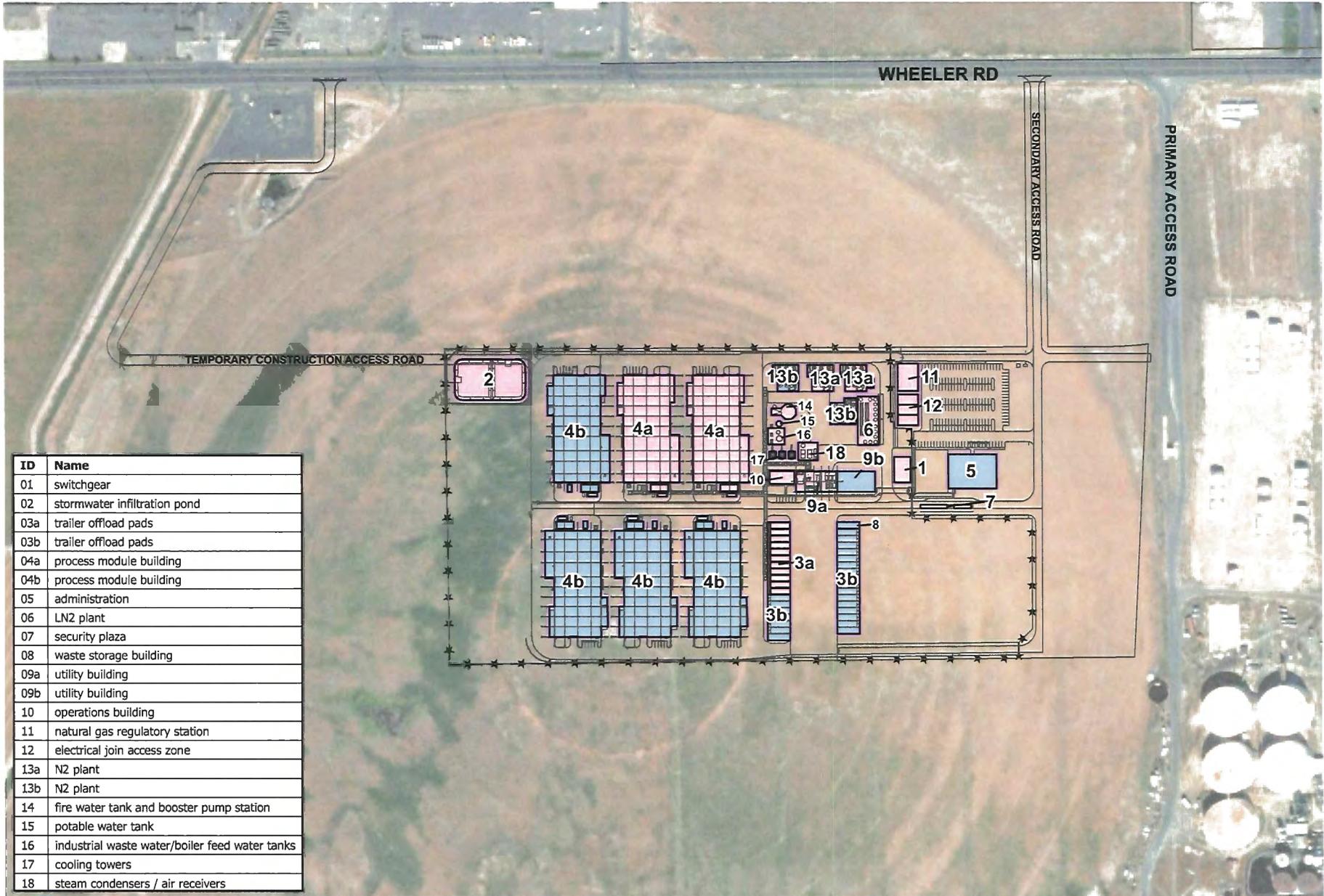
If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

C.2



BAM2 Water Balance PFD (gpm)			
Water Usage Table	Normal	Peak	Temp (F)
1 City Water	144.8	200	AMB
2 RO Feed	78.4	180	AMB
3 Cooling Tower Feed	42.9	68	AMB
4 Domestic Water Use	7.5	7.5	AMB
5 HVAC Feed Water (Module 1 & 2)	16.0	25.9	AMB
6 RO Reject	32.9	40	AMB
7 RO Treated Water	45.5	140	AMB
8 Boiler Feed Water Module 1	53.0	70	AMB
9 Boiler Feed Water Module 2	53.0	70	AMB
10 Boiler Blowdown Module 1	0.8	1.9	100
11 Boiler Blowdown Module 2	0.8	1.9	100
12 Total Condensate Return	66.0	83	140
13 Cooling Tower Blowdown	15.9	31.8	84
14 Evaporation	27.0	58	98
15 HVAC Blowdown (Module 1 & 2)	4.0	6.4	AMB
16 Utility Building Sump	0.3	5	AMB
17 WW Tank Outlet	54.7		AMB
18 WW to POTW	62.2		AMB

9-15-23



ID	Name
01	switchgear
02	stormwater infiltration pond
03a	trailer offload pads
03b	trailer offload pads
04a	process module building
04b	process module building
05	administration
06	LN2 plant
07	security plaza
08	waste storage building
09a	utility building
09b	utility building
10	operations building
11	natural gas regulatory station
12	electrical join access zone
13a	N2 plant
13b	N2 plant
14	fire water tank and booster pump station
15	potable water tank
16	industrial waste water/boiler feed water tanks
17	cooling towers
18	steam condensers / air receivers

- *—*— Proposed Fence
- Construction 2023 - 2024
- Construction 2024 - 2025

SECTION J. CERTIFICATIONS

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I approve of the discharge as described in this application. The applicant is:
(Please check the appropriate box below.)

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- A Categorical Industrial User
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Dunes Wastewater Treatment Plant
1801 Road K SE
Moses Lake, WA 98837

Treatment Works Owner: The City of Moses Lake

Street: P.O. Box 1579

City/State: Moses Lake, WA Zip: 98837

 10-17-2023 Wastewater Manager
Signature of Treatment Works Authority Date Title

Chris Campbell
Printed Name

2. Application review by Intermediate Sewer Owner at point of discharge (if applicable)

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.
Name and location of sewer system to which this project will be tributary:

Not applicable

Sewer System Owner: _____

Street: _____

City/State: _____ Zip: _____

Signature of Sewer System Authority Date Title

Printed Name