DEPARTMENT OF ECOLOGY
State of Washington

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: Iron Horse Brewery, Inc.

2. Facility Name: Iron Horse Brewery
(if different from Applicant)

3. Applicant Mail Address: 1621 Vantage Hwy
Street

Ellensburg WA 98926
City/State Zip

4. Facility Location Address: 1621 Vantage Hwy
(if different from 3 above) Street

Ellensburg WA 98926
City/State Zip

5. UBI No. 602749538

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):
47.000711 / -120.520906

RECEIVED
JAN 31 2018
Dept of Ecology
Central Regional Office

FOR OFFICE USE ONLY	Check One:	New/Renewal ☐	Modification ☐
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:

Greg Parker	Vice President
Name	Title
509-607-0545	greg@ironhorsebrewery.com
Telephone number	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: _____

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]	1/2/18	Vice President
Signature*	Date	Title

Greg Parker
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]	1/2/18	Brewmaster
Signature of delegated employee	Date	Title or function at the facility

Tyson Read
Printed name

SECTION B. PRODUCT INFORMATION

1. 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: Production and packaging of beer (NAICS 312120, SIC 2082)

2. List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
Grapes (Example)		*1,000 tons per year*
Cereal Grain		1400 tons per year
Hops		13 tons per year
Yeast		500 lbs per year

Type	PRODUCTS	Quantity
Grape Juice(Example)		*300,000 gallons per year*
Beer		90,000 gal/month

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
Cleaning	CIP	1	B
Beer Packaging	Pack	2	C
Wort Production	Brewhouse	3	C
Steam Production	Boiler	4	B
Filtration	Centrifuge	5	B

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.)*

3. What is the maximum daily wastewater discharge flow? 10,000 gallons/day

   What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 6,000 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.)*

   If IHB chooses to implement additional strategies to further reduce the BOD-5 or TSS, IHB will notify the City of planned improvements. Notifications will be made in accordance with existing permit conditions.

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
none												
Estimated Total Monthly Flow (GPD)												

6. How many hours a day does this facility typically operate? 24

How many days a week does this facility typically operate? 6

How many weeks per year does this facility typically operate? 52

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:

BrewkleenLF/220gal

ProOxine/55gal

Activator/15gal

Brewbrite/55gal

pHcontrol/220gal

Sulfuric acid/55gal

Savrite/30gal

Glosan/50lbs

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)?	☐	☒
b.	An Oil Spill Contingency Plan (chapter 173-182 WAC)?	☐	☒
c.	An emergency response plan (per WAC 173-303-350)?	☐	☒
d.	A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	☐	☒
e.	Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____	☐	☒
f.	A solid waste control plan?	☐	☒
g.	A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?	☐	☒

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ ☐ Public System (Specify) City of Ellensburg

☐ ☐ 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

Gallons per day (average) 10,750

Gallons per day (maximum) 13,500

b. Is water metered?

☒ YES ☐ NO

SECTION E. WASTEWATER INFORMATION

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

   Intake: Potable water metered by municipal water meter

   Effluent Magnetic flowmeter and WIND controller/datalogger

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 from equalization tank for TSS and BOD-5. Continuous monitoring for pH.

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 19th,20th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
X	BOD (5 day)	4800	27900	11502	24	SM 5210 B	/2 mg/l
	COD					SM 5220 D	/10 mg/l
X	Total suspended solids	385	7560	2442	24	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
X	pH	6.01	8.95	7.06	2000+	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
	Potassium					EPA 200.7	700/ µg/l
	Sodium					EPA 200.7	29/ µg/l
	Sulfate					SM 4500-SO_4 C/D	/200 µg/l
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th, 20th 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:

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 Azobenzene*)	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:

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.)

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

none

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

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)*

☐	Solvents	☐	Hazardous Wastes
☐	Scrap Metal	☐	Acids or Alkalies
☐	Petroleum or Petrochemical Products	☐	Paints/Coatings
☐	Plating Products	☐	Woodtreating Products
☐	Pesticides	☐	Other *(please list)*: _____

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

☐	Oil/Water Separator	☐	Detention Facilities
☒	Containment	☐	Infiltration Basins
☒	Spill Prevention	☐	Operational BMPs
☐	Surface Leachate Collection	☐	Vegetation Management
☐	Overhead Coverage	☐	Other *(please list)*: _____

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.*

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.

   Spent grain- Wilbur Ellis, Steve Vaughn, 509-459-9246

   Trub/yeast slurry- Natural Selection Farms, Brian Cambell, 509-572-5035

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

   All product raw materials are stored inside of buildings

   Cleaning chemicals are stored inside on spill containment pallets

   Spent grain is stored in storage silo

   Slurry tank is a 6000 gallon poly tank on concrete pad

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

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:

Treatment Works Owner: Ellensburg Wastewater Plant

Street: 2415 Canyon Rd

City/State: Ellensburg / Wash. Zip: 98926

Ryan Lyyski | 12/28/17 | Public Works Director

Signature of Treatment Works Authority | Date | Title

Ryan Lyyski

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:

Sewer System Owner:

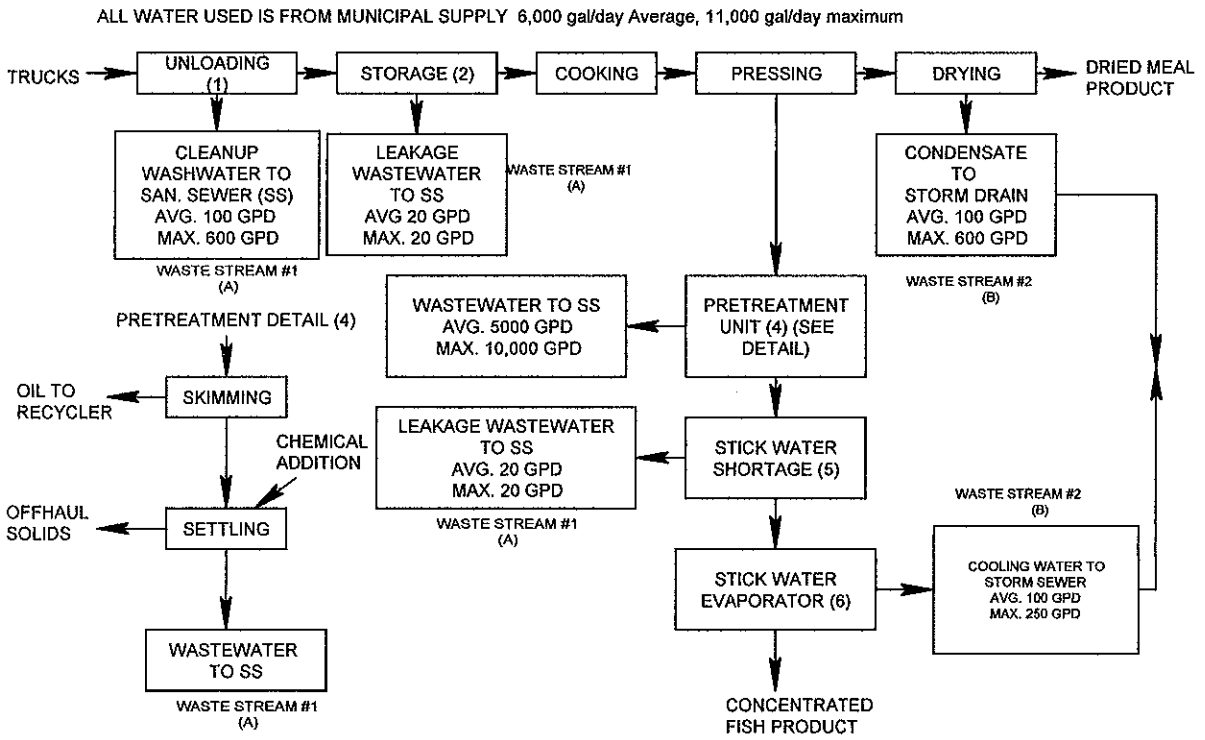
Street:

City/State: Zip:

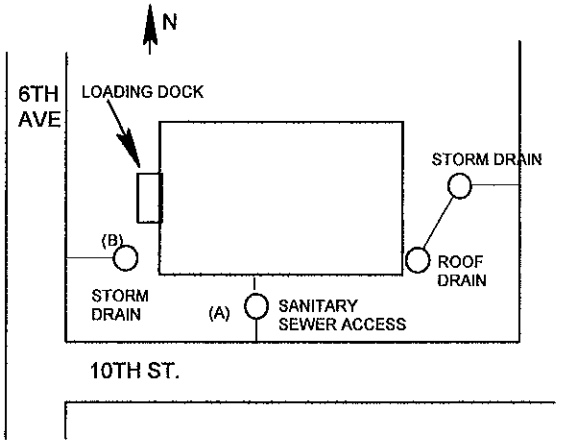
Signature of Sewer System Authority | Date | Title

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 and40 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.

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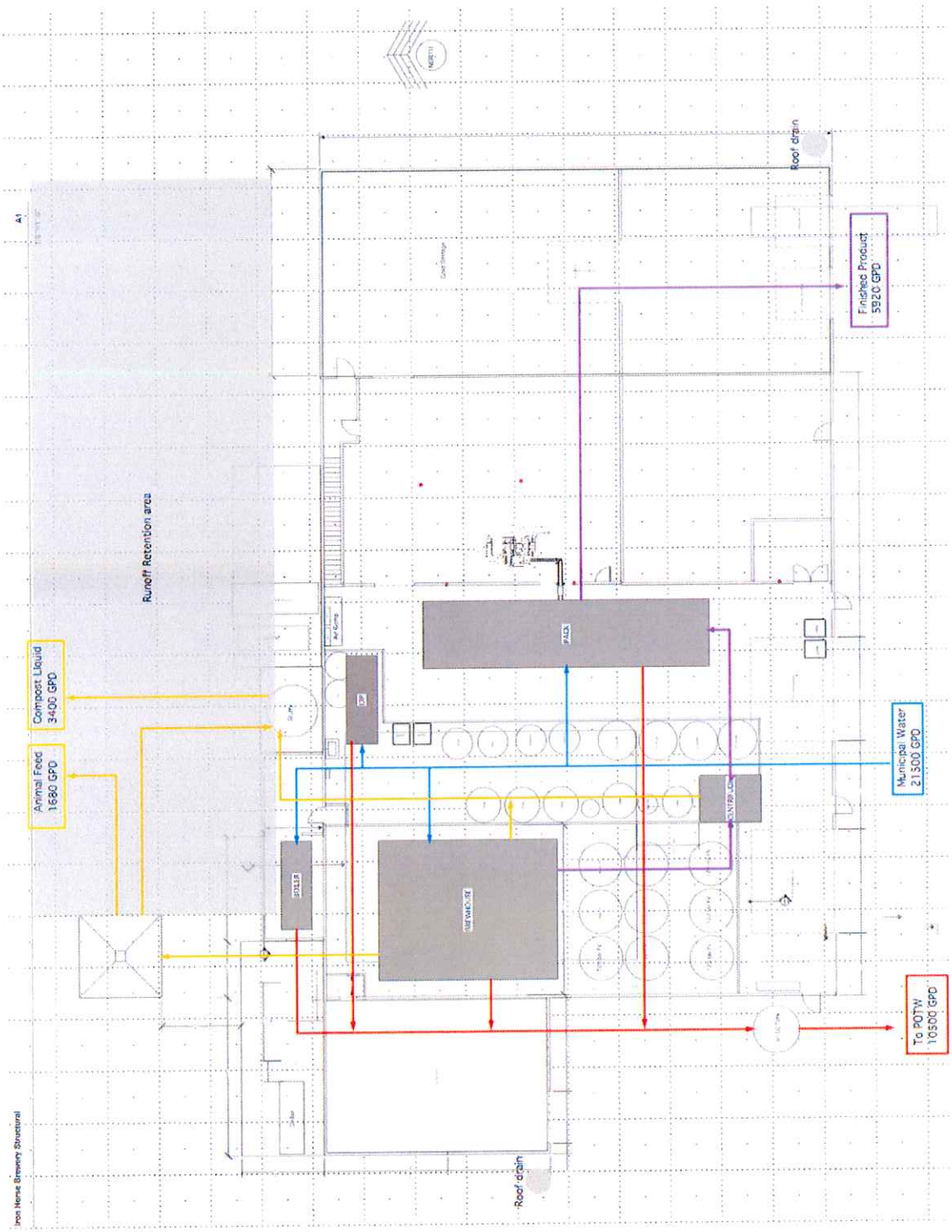
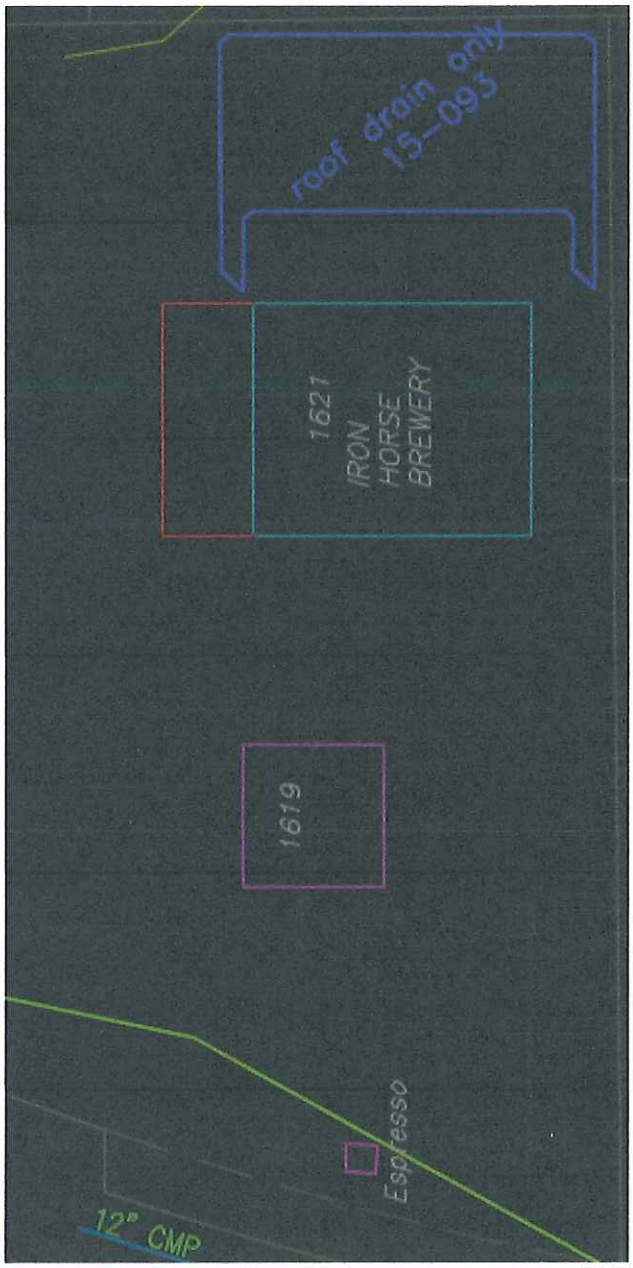
C.2. Production Schematic Flow Diagram and Water Balance

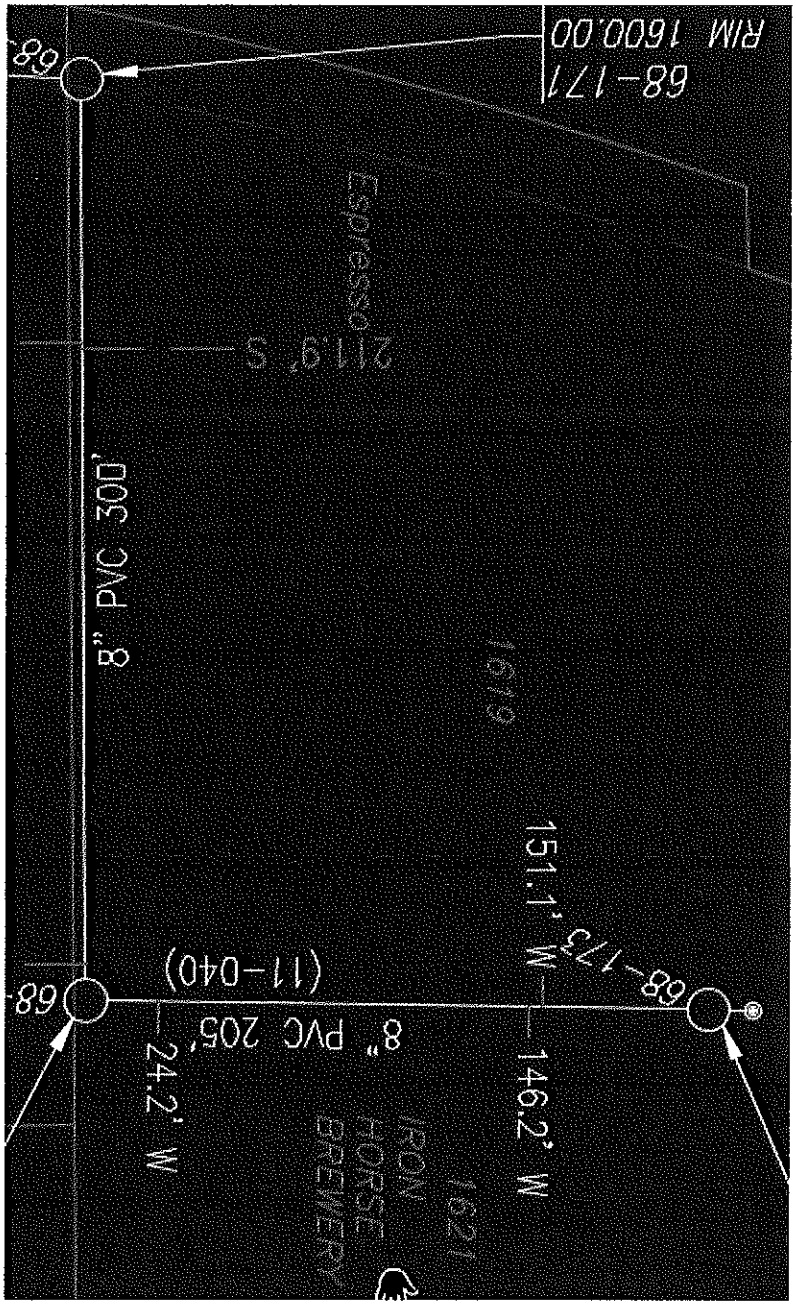


H. 5. ~~FACILITY SITE MAP~~

STORM WATER DRAINAGE MAP



F.1. Facility Site Map



AMENDMENT 1 TO THE
PROFESSIONAL SERVICES AGREEMENT
BETWEEN THE
CITY OF ELLENSBURG
AND
IRON HORSE BREWERY

RELATING TO: INDUSTRIAL WASTEWATER DISCHARGE

THIS AGREEMENT is made and entered into this 29th day of August, 2016, by and between THE CITY OF ELLENSBURG (hereinafter called the "CITY") and IRON HORSE BREWERY, (hereinafter called the "COMPANY").

WHEREAS, the CITY entered into an AGREEMENT with the COMPANY on December 1, 2013, (the AGREEMENT); and

WHEREAS, the COMPANY desires to amend the AGREEMENT to amend the allowable discharge limits; and

WHEREAS, the AGREEMENT provides that either party may request an amendment to agreement;

NOW, THEREFORE, in consideration of the above representations and the terms, conditions, covenants, and agreements set forth below, the parties hereto agree as follows:

The discharge limits are revised as follows:

Maximum Daily Discharge Limitations	Average Monthly Discharge Limitations
Flow = ~~5,000~~ 10,000 gallons/day	Flow = ~~3,000~~ 6,000 gallons/day

Except as modified herein, the original AGREEMENT shall remain in effect.

In WITNESS WHEREOF, the parties hereto have executed Amendment 1 to the Agreement as of the date and year first written above.

CITY OF ELLENSBURG

RYAN LYYSKI, PUBLIC WORKS DIRECTOR

APPROVED AS TO FORM:

TERRY WEINER, CITY ATTORNEY

COMPANY

GREG PARKER
TITLE: GENERAL MANAGER

ATTEST:

DEBBIE KENO, DEPUTY CITY CLERK

CITY OF ELLENSBURG
INDUSTRIAL WASIEWATER DISCHARGE AGREEMENT

In accordance with the provisions of city of Ellensburg City Code chapter 9.25.370

Iron Horse Brewery
1621 Vantage Highway
Ellensburg, WA 98926

Is hereby authorized to discharge industrial wastewater from the brewing activities at the above identified facility and through the discharge point identified herein in this agreement. Compliance with this agreement does not relieve Iron Horse Brewery. of its obligation to comply with any applicable pretreatment regulations, standards, or requirements under local, state, and federal laws, including any such regulations, standards, or laws, that may become effective during the terms of this agreement.

Non-compliance with any term or condition of this agreement shall constitute a violation of the Ellensburg City Code, Section 9.25.370. All terms and definitions are the same as those found in Ellensburg City Code, Section 9.25.370. This agreement incorporates by reference all of the applicable provisions of the Ellensburg City Code, including but not limited to Section 9.25.370.

This agreement shall become effective on December 1, 2013, and shall expire on November 30, 2018, unless modified or terminated earlier.

Iron Horse Brewery and the City of Ellensburg will re-negotiate this agreement 90 days prior to expiration.

Authorization to Discharge

Capacity Limit

December 1, 2013 – November 30, 2018

In accordance with the provisions of City of Ellensburg City Code 9.25.370 PRETREATMENT OF SEWAGE

Industry name and site location: Iron Horse Brewery
Mailing Address: 1621 Vantage Highway
Ellensburg, WA 98926

is hereby authorized to discharge wastewater from the above-identified facility into the City of Ellensburg's collection system in accordance with the capacity limitations as set forth in this authorization.

Brewing Wastewater:

Iron Horse Brewery will be allowed to discharge the following:

Maximum Daily Discharge Limitations	Average Monthly Discharge Limitations
Total BOD = 38,000 mg/l	Total BOD = 28,000 mg/l
TSS = 25,000 mg/l	TSS = 15,000 mg/l
Flow = 5,000 gallons/day	Flow = 3,000 gallons/day
pH = > 5.5 and < 9.0	pH = > 5.5 and < 9.0

Iron Horse Brewery is strongly advised to limit their yeast discharge; as this has a detrimental effect on the treatment plant bacteria.

Sampling and testing will be performed by Iron Horse Brewery consisting of Total BOD mg/L, TSS mg/L, and pH every two weeks. Flow and pH measurement will be taken daily. Sampling and testing schedules pertain to when Iron Horse Brewery is discharging to the City sewer.

All sample analysis for BOD and TSS will be performed by a Department of Ecology accredited Laboratory. Iron Horse Brewery personnel will perform the analysis for pH, and make any necessary adjustments to pH levels, prior to discharge into the City sewer system. pH samples will be grab samples.

Composite samples will be taken by the City to randomly perform BOD, TSS, and pH in the Ellensburg wastewater laboratory. Random testing will be done at the City's expense. Discharges in excess of the above limitations will be reported to Iron Horse Brewery and the Department of Ecology.

Strength fees will be determined from tests performed by Iron Horse Brewery and the City of Ellensburg.

If at any time Iron Horse Brewery exceeds the limits, Iron Horse Brewery must apply for additional capacity at the City's WWTP if it is available, and is responsible for all costs involved.

This charge would be in addition to any **strong waste surcharge** applied to wastewater with a BOD and/or TSS concentration greater than 200 and 250 mg/L respectively.

All discharges authorized will be consistent with the terms and conditions of this agreement. The discharge of the listed pollutants at a level in excess of that authorized will constitute a violation of this authorization if additional capacity is not applied for by Iron Horse Brewery upon notification by the City.

If additional capacity is not available to be allocated, Iron Horse Brewery must modify its process to accommodate the discharge capacity limits as outlined by this Agreement to Discharge.

Either party may request an amendment to this agreement, due to changing circumstances. Requests for changes must be submitted in writing, a minimum of thirty days prior to any renegotiation.

All monitoring records will be maintained for a minimum of 3 years.

Iron Horse Brewery will allow the City of Ellensburg Representative to enter, and inspect Iron Horse Brewery premises where a regulated facility or activity is located or conducted. The City representative will be allowed access to and copy, at reasonable time, any records that must be kept as conditions of this agreement The City may split samples or set a city sampler to compare sampling results.

The City may seek any or all of the remedies or penalties provided in the Municipal Code, including recovery costs incurred by the City, in response to a violation of this agreement by Iron Horse Brewery.

Process discharge will enter into the City of Ellensburg's collection system through manhole number 68-172 only.

This authorization shall become effective upon issuance of a State discharge permit to Iron Horse Brewery from the Department of Ecology, and will remain effective until November 30, 2018, unless changes in the process or changes in the characteristics of the wastewater occur upon which either party may request amendment in accordance with the above provisions.

By: City of Ellensburg
John Akers
Director of Public Works Signature _____

Issued: December 1, 2013

For: Iron Horse Brewery
Greg Parker
General Manager Signature _____