



## 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: Western Chemical Inc. DBA Syndel USA
2. Facility Name: \_\_\_\_\_  
(if different from Applicant)
3. Applicant Mail Address: 1441 W Smith Rd  
Street  
Ferndale, WA 98248  
City/State Zip
4. Facility Location Address: \_\_\_\_\_  
(if different from 3 above) Street  
\_\_\_\_\_  
City/State Zip
5. UBI No. 600 34 8 234  
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):  
48.832870 / -122.559620

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:

Doug Dickinson

Name

Director of Operations

Title

360 312 4196

Telephone number

360 312 4907

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\*

11/09/2023

Date

CFO

Title

Ryan Becker

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:

Doug Dickinson

Signature of delegated employee

11/9/2023

Date

Director of Operations

Title or function at the facility

Doug Dickinson

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: Fish Anesthesia, Egg Disinfectant, Water Treatment Additives (SIC – 5169, NAICS – 325412).

### 1A. Syncaïne manufacturing process

The product (tricaine methanesulfonate) is 100% active substance (Active Pharmaceutical Ingredient [API]). API manufacturing in 40 kg batches takes two days.

Tricaine methanesulfonate is manufactured from three raw materials: 1) meta-aminobenzoic acid (MABA), 2) ethanol (EtOH) and 3) methane sulfonic acid (MSA). Ethanol functions as both solvent and reagent for the esterification of carboxylic acid functional group, while MSA catalyzes the esterification step and functions as the proton donor in the acid base reaction. The reagents are all achiral and do not form enantiomers. The esterification mechanism is believed to be initiated by MSA acidic reduction of the double-bonded oxygen of the carboxylic functional group of MABA. Subsequent esterification of the ethanol is exhibited by donation of hydroxyl hydrogen of EtOH and bonding of the EtOH oxygen to the root carbon of the carboxylic group.

Following completion of manufacture on Day 2, the API is put into bulk packaging containers and placed in quarantine.

### 1B. Ovadine manufacturing process

The manufacture of Ovadine® is a process of chemical blending and does not constitute any form of chemical reaction. Only blending and chemical buffering is accomplished, which does not change the nature or form of the constituents other than those that would normally occur in chemical equilibrium through proton exchange. The initial component volumes and/or masses are described in the process specification, but the only measured parameters in the process are free iodine and the final pH, which are macroscopic in nature and do not constitute critical process control points. Since no chemical reactions are present and only final macroscopic physiochemical properties are measured, there are no Critical Control Points (CCPs) in the manufacture of Ovadine®.

### 1C. Vidalife manufacturing process

The manufacture of Vidalife is a process of chemical blending and does not constitute any form of chemical reaction. Only blending and chemical buffering is accomplished, which does not change the nature or form of the constituents other than those that would normally occur in chemical equilibrium through proton exchange.

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
PVP-I		6400 kg/year
Citric Acid Anhydrous (USP)		475 lbs/year
Dibasic Sodium Phosphate Anhydrous (FCC)		2032 lbs/year
Meta-Amino benzoic Acid (MABA)		3193 kg/year
Methane-Sulfonic Acid (MSA)		3028 kg/year
SDA 2B Alcohol- for Reaction		46500 lt/year
PVP K-30		203 kg/year
Propyl Paraben		3.7 kg/year
Bromocresol Green		74 g/year

10% Tetrasodium EDTA	2322 lbs/year	
Type	PRODUCTS	Quantity
Grape Juice(Example)	300,000 gallons per year	
Syncain	3886 kg/year	
Ovadine	14000 gal/year	
Vidalife	9877 gal/year	

## 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
Syncaïne	Syncaïne waste stream	01	B
Ovadine	Ovadine waste stream	02	B
Vidalife	Vidalife waste stream	03	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? 33\_\_ gallons/day

What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? \_\_\_\_ gallons/day

**Note:** maximum daily wastewater was determined by wastewater generated throughout the year and then averaged out over each month for 2023 calendar year. We do not produce product every day, so we had to average out over the year.

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.*)

No planned wastewater treatment improvements or changes expected in the near future.

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
Estimated Total Monthly Flow (GPD)												

6. How many hours a day does this facility typically operate? 8  
 How many days a week does this facility typically operate? 5  
 How many weeks per year does this facility typically operate? 50

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: Syncaine production room uses a dryer that is hydraulically operated and has approximately 100 gallons of hydraulic oil circulating through hydraulic lines for the dryer operation. No other incidental materials are used or stored in productions areas. See attached SDS.



- |   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| 8. 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 checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <b>Teil II, Contingency Plan Emergency Services</b>   |                                     |                                     |
| 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: | <input type="checkbox"/>            | <input checked="" 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 Ferndale  
☐ Private Well ☐ Surface Water

a. Water Right Permit Number: \_\_\_\_\_

b. Legal Description of Water Source

\_\_\_\_\_ 1/4S, \_\_\_\_\_ 1/4E, \_\_\_\_\_, Section, \_\_\_\_\_ TWN, \_\_\_\_\_ R

2. Potable water use

a. Indicate total water use 17098.812 cubic feet per year

Gallons per day (average) 491

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:** All intake water flows entering the facility are metered by the city of Ferndale.

Product manufacturing water intake flows are measured per product SOP. Ovadine and Vidalife have required amounts of water added for production and these quantities fluctuate little (10 gallons or less).

**Effluent:** Facility water effluent flows are not measured and flow to city SS.

Ovadine and Vidalife product manufacturing water effluent flows have been measured by filling product manufacturing tanks with water and noting amount of water used for cleaning and discharge to city SS.

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 taken at point of waste discharge from manufacturing equipment.

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 <sup>th</sup> , 20 <sup>th</sup> 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 <sub>3</sub> 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 <sub>3</sub> E	100 µg/L
	Total kjeldahl N as N					SM 4500-N <sub>org</sub> 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 <sub>4</sub> 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 19 <sup>m</sup> , 20 <sup>m</sup> 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 µg/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:

- Benzene (71-43-2) - Lab testing only. Quantity onsite: 25-50 ml
- Methylene chloride (75-09-2) - Lab testing only. Quantity onsite: 500 ml - 1 L
- Toluene (108-88-3) - Used in manufacturing of Syncaïne as denaturant for ethanol. Comes already mixed as SDA-2B (max 0.7% toluene, see SDS)
- Toluene (108-88-3) - Used in lab testing. Quantity onsite: <500 ml of pure toluene.

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	<b>205-82-3</b>	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	<b>189-55-9</b>	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	<b>3-Methyl cholanthrene</b>	<b>66-49-5</b>
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	<b>224-42-0</b>	N-Nitrosodi-n-propylamine	621-64-7
Dibenzo (a,h)acridine	<b>226-36-8</b>	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-h)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	<b>Perylene</b>	<b>198-55-0</b>
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 ☐

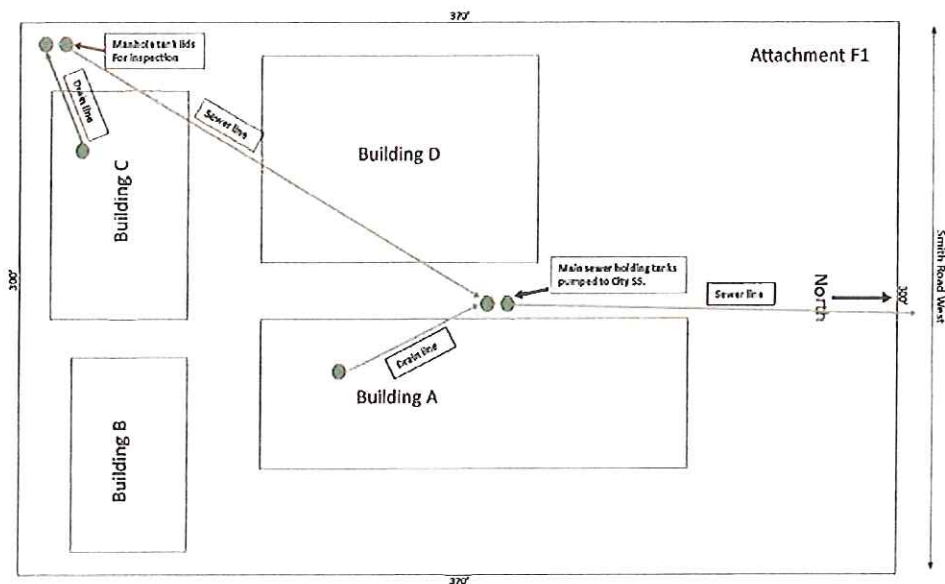
Persistent ☐

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**

- I. List all environmental control permits or approvals needed for this facility; for example, air emission permits.
- Northwest Clean Air Agency Air Emission permit – Registration Number: 2287
  - Hazardous Material Certificate of Registration – Registration Number: 060523550378F
  - WA DOE Stormwater permit – Application ID 2334 - Conditional No Exposure Exemption – Granted CNE Number 311590
  - WA DOE Turbo Waste permit number WAH000054899

## 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. CNE Number 311590

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

☐ Drain field

☐ 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)*

- |  |   |
|--|---|
| <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 stormwater 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> : _____ |

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.

Syncairn manufacturing process creates hazardous waste. The hazardous waste is transferred to IBC hazwaste totes and disposed of through a third party hazwaste disposal company.

**Type of waste:** TMS Liquor (ethanol solutions)

**Hazwaste disposal company:** Velolia, PO Box 73709 Chicago, IL 60673-7709. Phone 206-790-1890

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

Raw materials, products and wastes are stored in building D, a 12000-sf warehouse equipped with a fire suppression system. All materials are segregated based on their incompatibilities to prevent unwanted or dangerous interactions with other items.

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:

Street:

City/State:

Zip:

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:

Sewer System Owner:

City of Ferndale

Street:

2095 Main St. P.O. Box 936

City/State:

Ferndale

Zip: Washington

11/28/2023

Public Works Director

Signature of Sewer System Authority

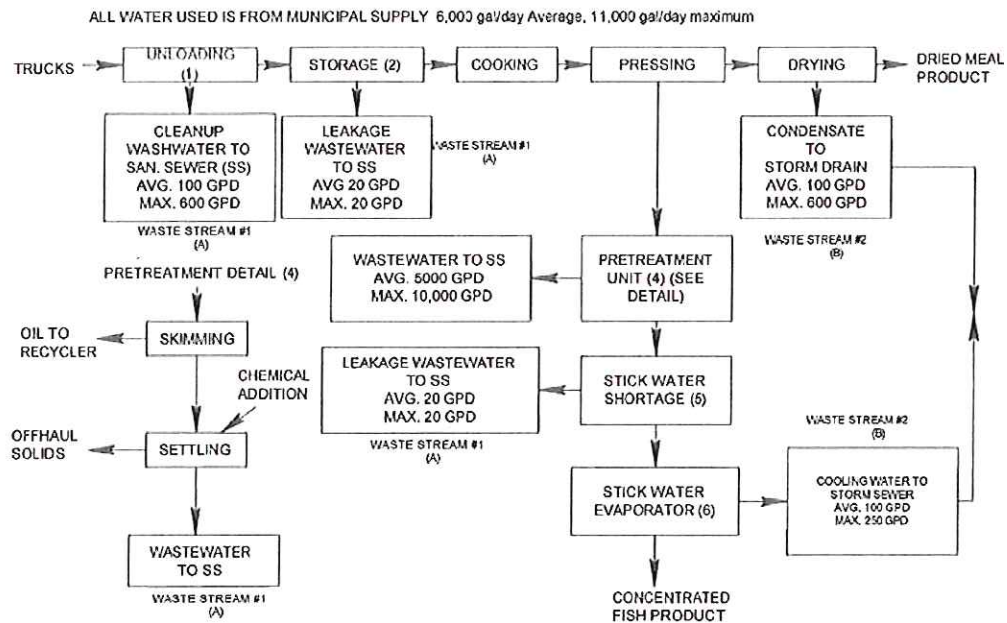
Date

Title

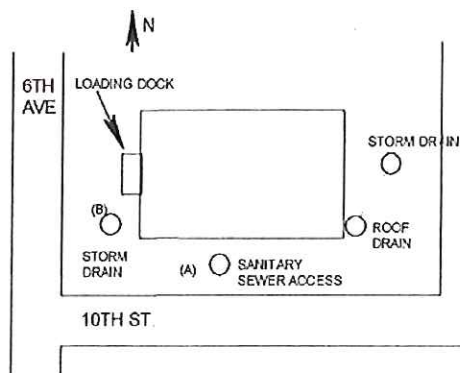
Kevin Renz

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 waste stream 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).

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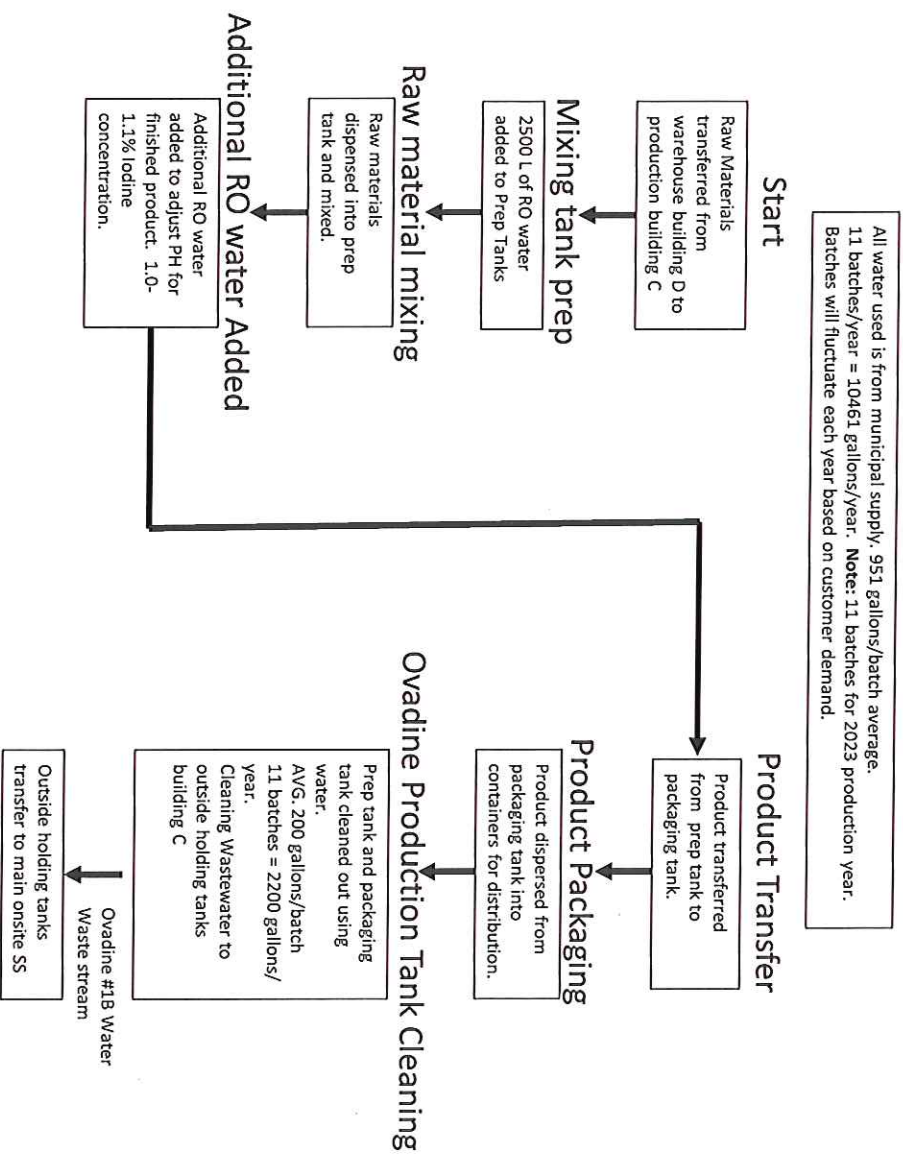
### Summary of Attachments That May be Required for This Application:

*(Please check those attachments that are included)*

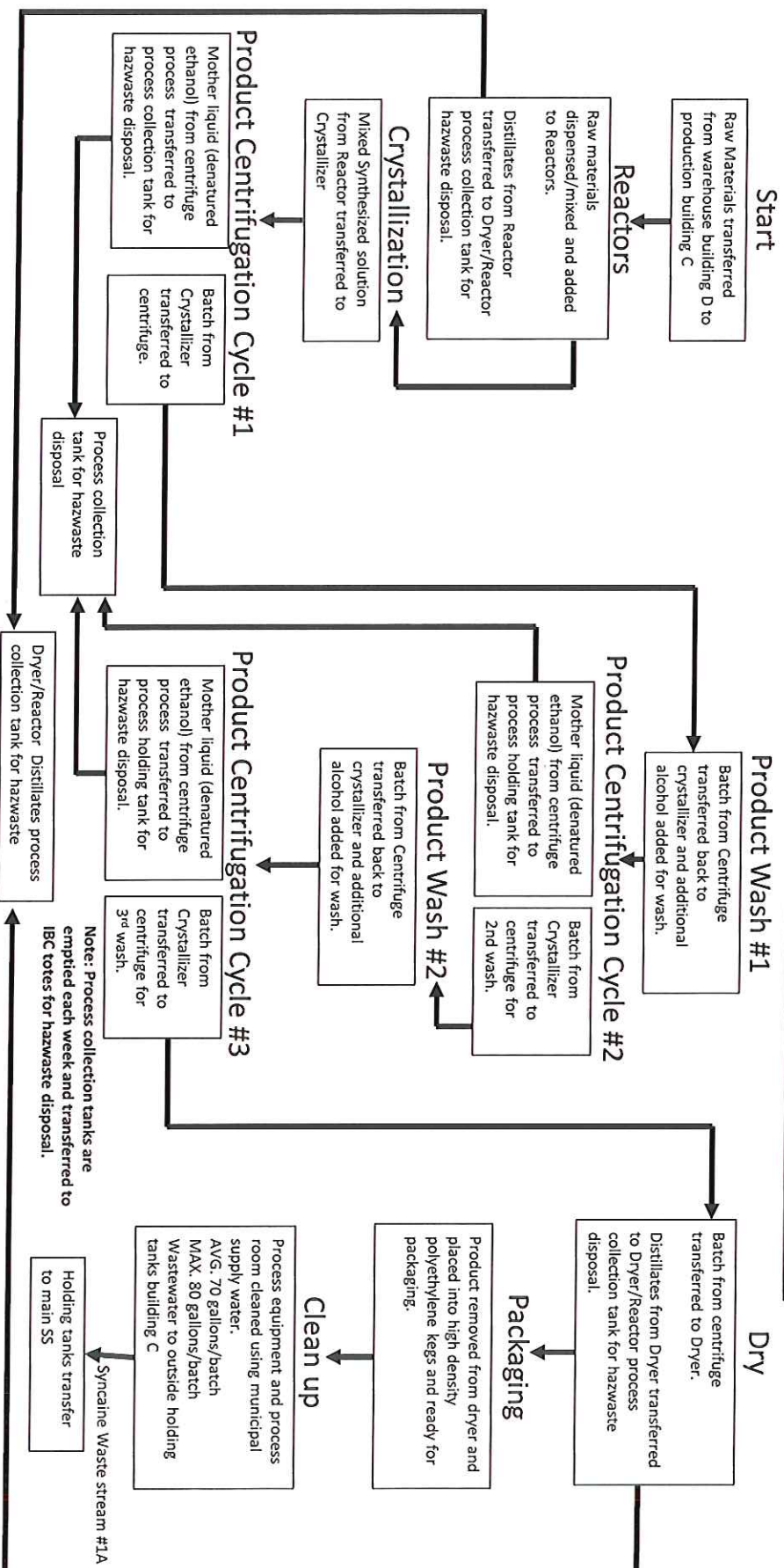
- ☒ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☐ C.7. Additional incidental materials
- ☐ E.8. Additional results of effluent testing
- ☒ F.1. Facility site map
- ☐ H.5. Stormwater drainage map

*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.*

## Ovadine Process Schematic Diagram

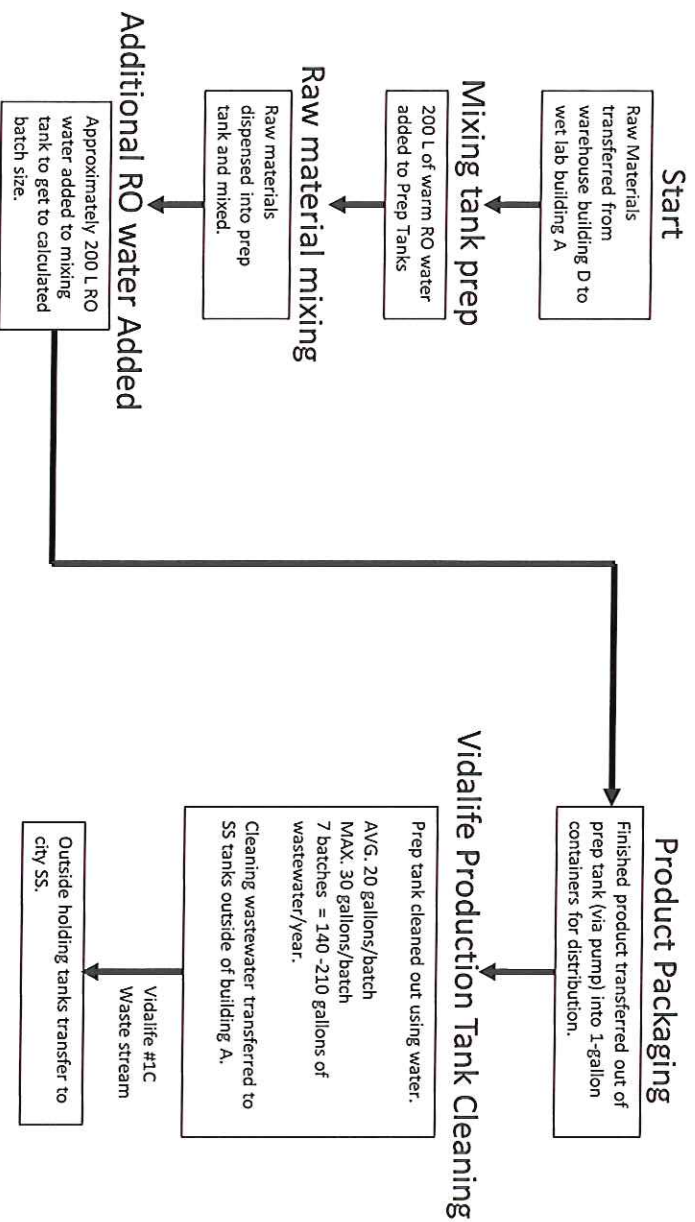


All water used is from municipal supply. 70 gallons/batch average, 80 gallons/batch maximum. 68 batches/year = 4,760 – 5,440 gallons/year. **Note:** 68 batches for 2023 production year. Batches will fluctuate each year based on customer demand.

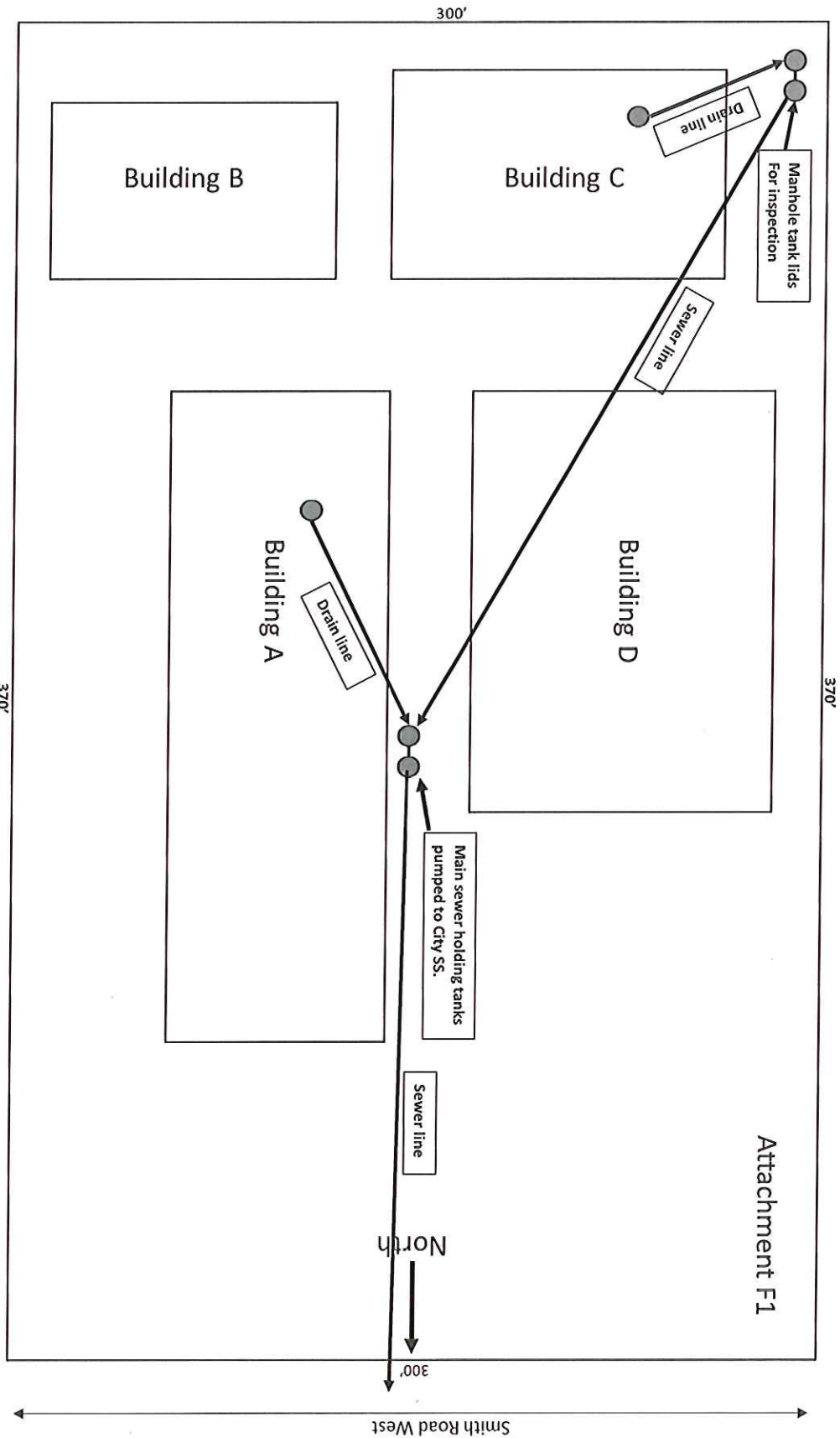


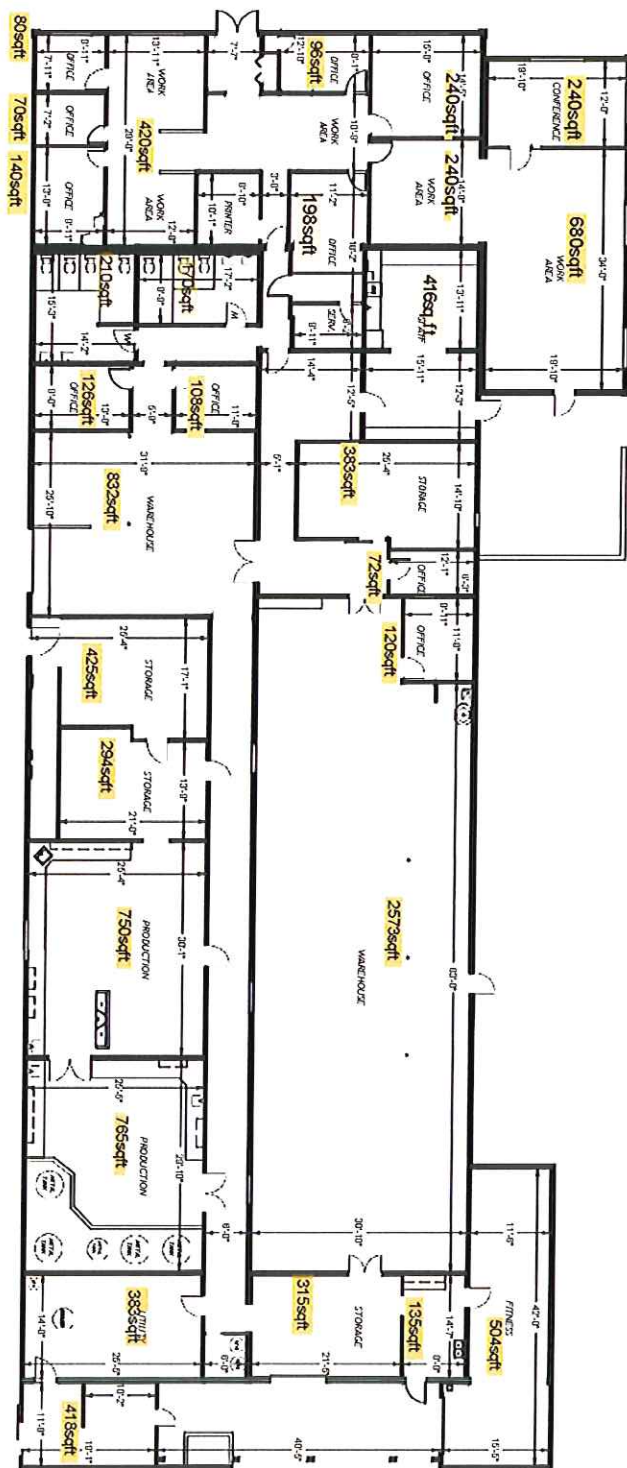
## Vidaiife Process Schematic Diagram

All water used is from municipal supply 120 gallons/batch average, 150 gallons/batch maximum.  
7 batches = 840 – 1050 gallons of water/year. **Note:** 7 batches for 2023 production year.  
Batches will fluctuate each year based on customer demand.

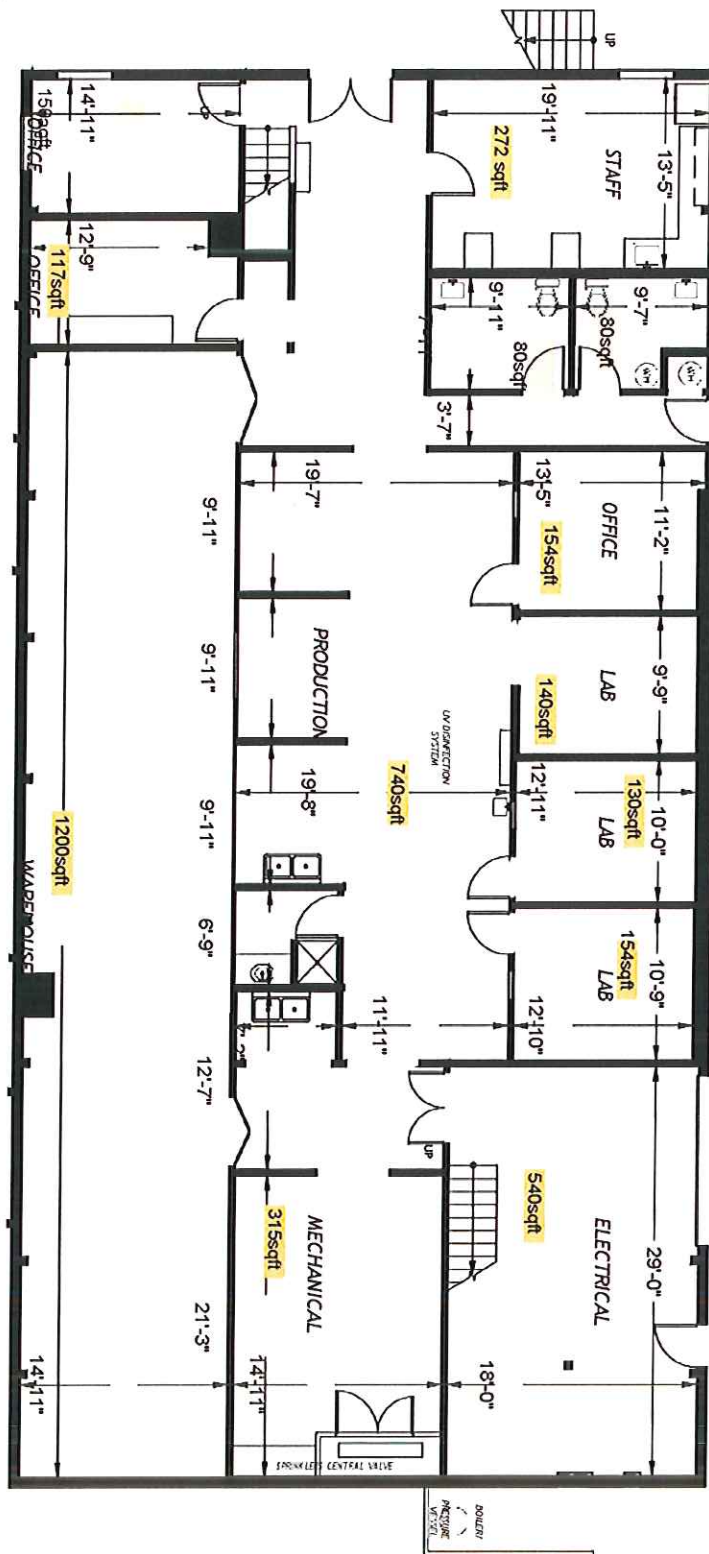








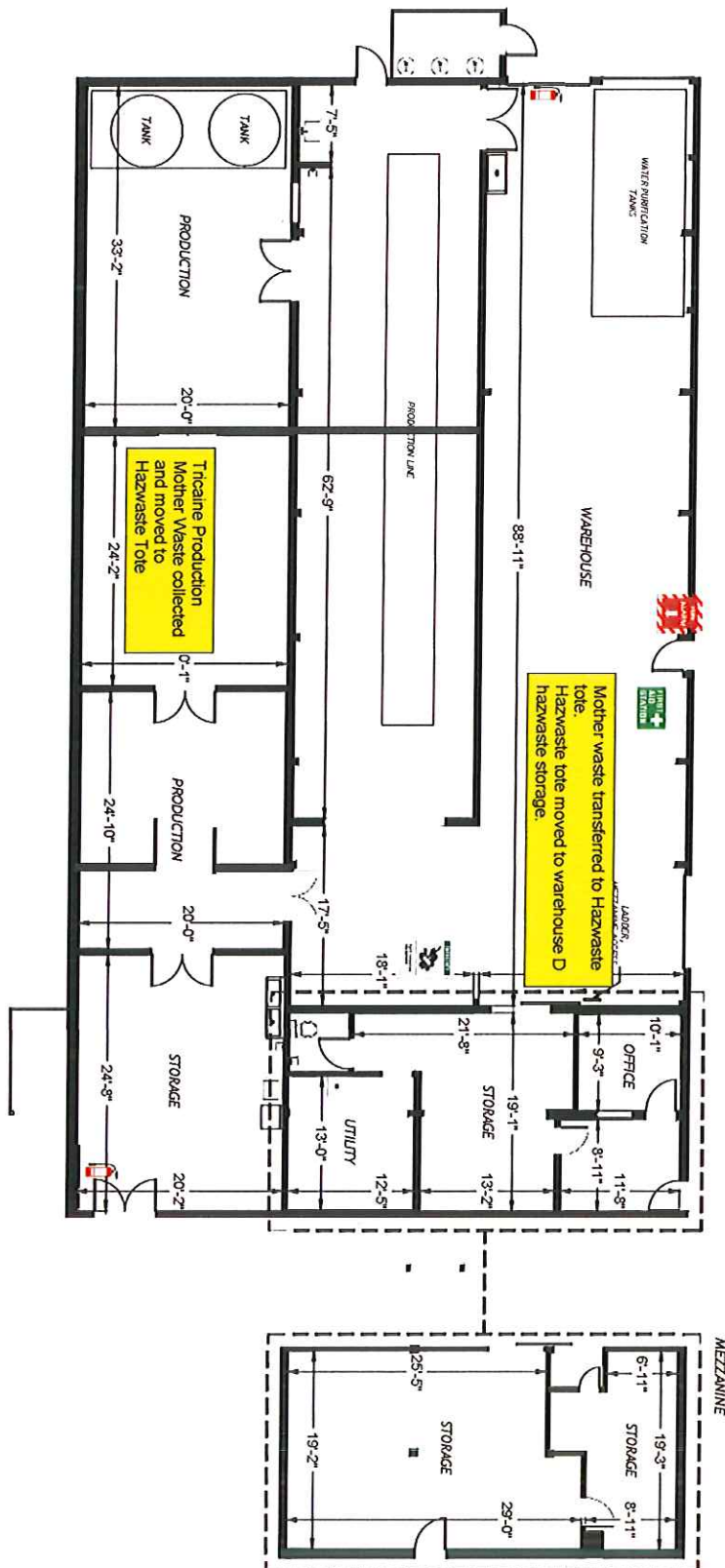
Syndel 1269 Lattimore Road Ferndale, WA 98248	Building A 1441 West Smith Road Ferndale, WA 98248	Floor Plan <b>1</b>			2DFLOORPLANS.COM 206-328-7410  600 NW Gilman Blvd, Suite E Issaquah, WA 98027
Client	Subject	Floor	Scale	Measured: July 2017	Project: C17-683



TOTAL BUILDING SQFT = 10,008

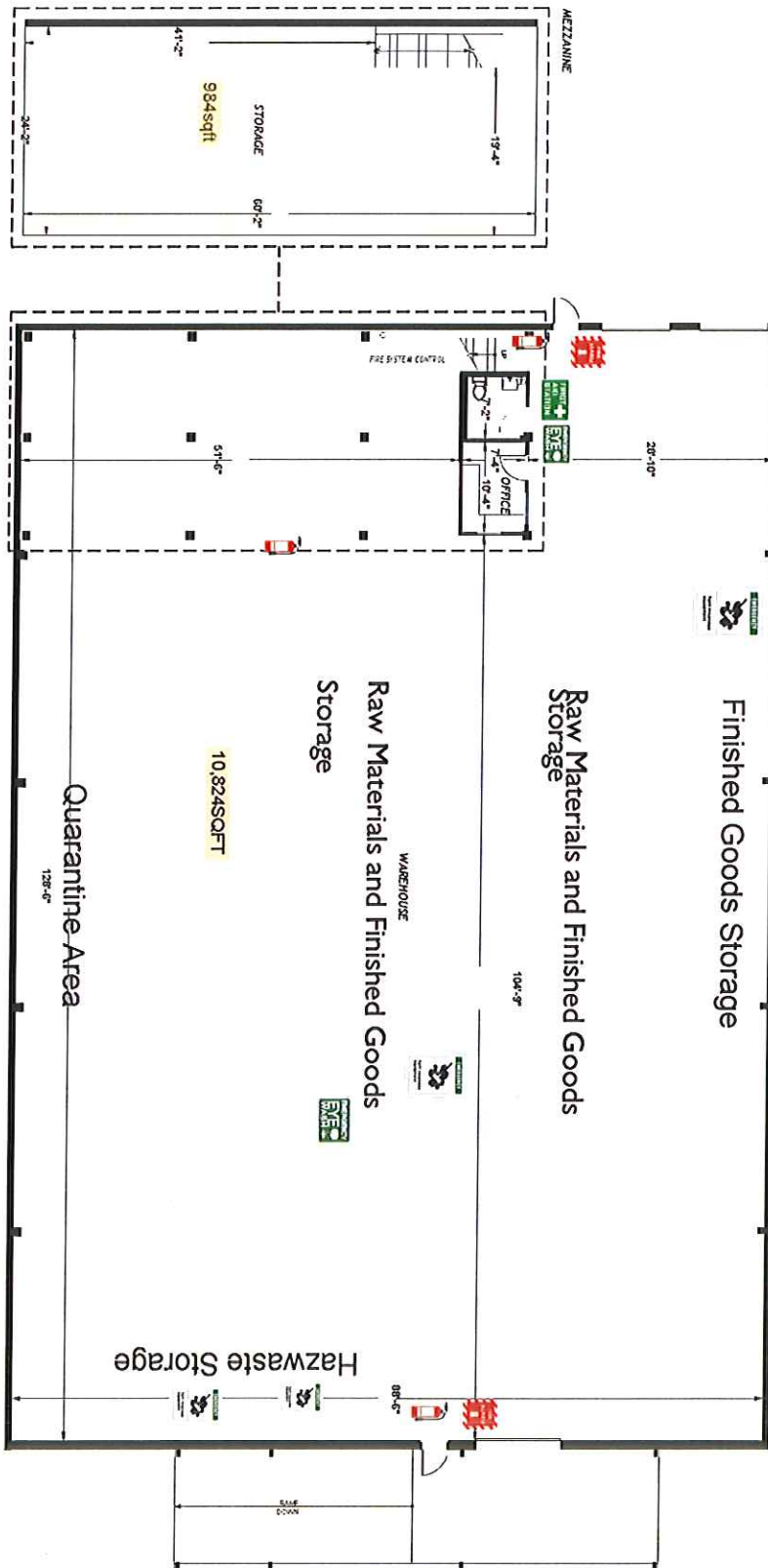


Syndel 1269 Lattimore Road Ferndale, WA 98248	Building B 1441 West Smith Road Ferndale, WA 98248	Floor Plan <b>1</b> Floor	Scale 	<div data-bbox="1101 1906 1193 1976"> </div> <div data-bbox="1201 1906 1370 1976">           2DFLOORPLANS.COM            206-328-7410            600 HW Geman Blvd, Suite E            Bissqash, WA 98027         </div> <div data-bbox="1088 1976 1370 1997">           Measured: July 2017      Project: C17-683         </div>
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Syndel 1269 Lattimore Road Ferndale, WA 98248	Building C 1441 West Smith Road Ferndale, WA 98248	Floor Plan <b>1</b> Floor	Scale 	<div data-bbox="1096 1906 1193 1974"> </div> <div data-bbox="1201 1906 1378 1974">           2DFLOORPLANS.COM            206-328-7410            600 NW Gilman Blvd, Suite E            Issaquah, WA 98027         </div> <div data-bbox="1088 1974 1378 1997">           Measured: July 2017    Project: C17-683         </div>
Client	Subject	Floor	Scale	Measured: July 2017    Project: C17-683





TOTAL BUILDING SQFT= 111,808



Syndel 1269 Lattimore Road Ferndale, WA 98248 <b>Client</b>	Building D 1441 West Smith Road Ferndale, WA 98248 <b>Subject</b>	Floor Plan <b>1</b> Floor	Scale 	<div data-bbox="1096 1900 1193 1984"> </div> <div data-bbox="1193 1900 1372 1984">           2DFLOORPLANS.COM            206-328-7410            600 HW Gilman Blvd, Suite E            Issaquah, WA 98027            Measured: July 2017    Project: C17-683         </div>
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