



# 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.

<b>SECTION A. GENERAL INFORMATION</b>
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1. Applicant Name: Novanta/Synrad
  
2. Facility Name: \_\_\_\_\_  
(if different from Applicant)
  
3. Applicant Mail Address: 4600 Campus Place  
Street  
  
Mukilteo, WA 98275  
City/State Zip
  
4. Facility Location Address: \_\_\_\_\_  
(if different from 3 above) Street  
  
\_\_\_\_\_  
City/State Zip
  
5. UBI No. 603-459-528  
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):  
47.8908 / -122.2926



<b>FOR OFFICE USE ONLY</b>			
<b>Check One:</b>		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:

Gary Tosaya  
Name

Manufacturing Engineer  
Title

425.349.9500 X5022  
Telephone number

425.349.3667  
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.

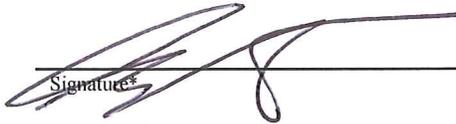
**Permit Modification**

**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\*

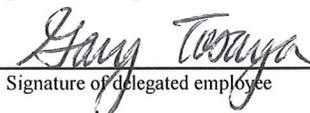
11/22/2016  
Date

General Manager  
Title

Charlie Webster  
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

11-22-16  
Date

Manufacturing Engineer  
Title or function at the facility

GARY TOSAYA  
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: SIC code 3699 = Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified; NAICS code 335999 = All other miscellaneous electrical equipment and component manufacturing

This facility designs and produces affordable industrial marking and cutting lasers, beam delivery systems, and other laser products (optics, beam expanders, power meters and power supplies). Research, development and design are a major portion of the activity at this site.

Production involves machining, welding and cleaning aluminum alloy stock and other minor components. There is also some soldering of circuit boards and associated electronics processes, as well as assembly and 'burn-in' of lasers. Most of the aluminum is received as pre-formed stock.

All processes that generate wastewater are located in a single 'wet process room'. The majority of the wastewater is generated by the cleaning of machined aluminum stock (identified as "Process A" in attached diagram C2). Used solutions and rinses are neutralized prior to dumping into the Mixing Tank and/or in the Tank. The pH of the tank is monitored, with the wastewater only being allowed to discharge to the POTW when it is within permit limits. If the mixture in the Tank is not within limits, it is treated to bring it within permit limits so that it can be discharged to the POTW.

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
process water		50-250 gal/day typical, 1,000 gpd max.
Arcair - Protex Brand Cleaner		2 gal./month
Brulin - GD815 Brand Cleaner		25 gal/month
Ethanol		110 gal/month
25% Phosphoric Acid		1 gal/month
50% Sodium Hydroxide		1 gal/month
Type	PRODUCTS	Quantity
<i>Grape Juice(Example)</i>		<i>300,000 gallons per year</i>

## SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and 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
Acidic and Basic Cleaning	Wet Process Room Effluent	A	Continuous
Other Minor Cleaning	(Combined with above)	B	Batch

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? 250 gallons/day

What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 180 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.)*

The biggest changes from the last permit renewal are the change in name of the company. Excel Technologies acquired Synrad, and then the GSI Group purchased Excel. Most recently GSI changed their company name from GSI to Novanta. Under Excel the ownership of Synrad changed, then again it changed with GSI. Despite these corporate changes, the wet process production activities at the site have changed very little.

The minor changes in the processes creating wastewater since the last permit renewal are reflected in the changes to this application.

- 1) Hydrochloric Acid and Sodium Bicarbonate are no longer used (Section B.2. and Attachment C2).
- 2) There is no longer a wet cleaning process for ceramic (Attachment C2).
- 3) The typical monthly flows (Section C.5.) have been revised slightly to reflect historical data (as opposed to the time-based estimates in the last application/permit). The biggest difference is the typical increase in water use for Oct when production ramps up to meet year end goals. Note that these flows are all within the existing permit limits.
- 4) The use of a commercial corrosion inhibitor for the closed-loop cooling system has been added to Section E.7.

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
A+B = wet room discharge	185	185	185	185	185	185	185	185	185	250	185	185
<b>Estimated Total Monthly Flow (GPD)</b>	185	185	185	185	185	185	185	185	185	250	185	185

6. How many hours a day does this facility typically operate?                      10  
 How many days a week does this facility typically operate?                      5.5  
 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: Ethanol in 55 gallon drums, typically 3-4 on site at one time.

Brulin 815 cleaner in 2.5 gallon jugs, typically 20 on site at one time.

Protex cleaner in 1 gallon jugs, typically 8 on site at one time.

Other materials (cleaning solvents, acids, bases, etc.) are less than 10 gallons each on site.

All of these chemicals/materials are stored in the 'wet process' room and/or in the store room. There is no outside chemical exposure.

- | 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 type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d. | A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e. | Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____ | <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) Alderwood Water and Wastewater District

Private Well

Surface Water

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

b. Legal Description of Water Source

\_\_\_\_\_ ¼S, \_\_\_\_\_ ¼E, \_\_\_\_\_, Section, \_\_\_\_\_ TWN, \_\_\_\_\_ R

2. Potable water use

a. Indicate total water use \_\_\_\_\_

Gallons per day (average) 2,700

Gallons per day (maximum) 5,100

b. Is water metered?

YES     NO

## SECTION E. WASTEWATER INFORMATION

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

Intake: All process water intake is discharged as effluent - where it is measured.

Effluent Process wastewater discharge is based on number of tankfuls of effluent processed.

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

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	
X	pH	5.7	8.2	7.1	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	
X	Total Oil & grease	0	12	4.1	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	

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			
	Sulfate					SM 4500-SO <sub>4</sub> C/D	/200 µg/l
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l
	Barium (total)					EPA 200.8	0.5/2 µg/l
	Cadmium (total)					EPA 200.8	.05/.25 µg/l
	Chromium (total)					EPA 200.8	0.2/1 µg/l
X	Copper (total)	0.00	0.03	0.00	12	EPA 200.8	0.4/2 µg/l
X	Lead (total)	0.00	0.02	0.00	12	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: Copper and Lead are used in circuit boards. Note that the processes related to these materials are not within the 'wet process room' and so the possibility of having copper or lead enter the process wastewater stream is extremely unlikely. All Copper and Lead used on site goes into either product, or into solid waste which is handled per RCRA requirements.

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
<b>Benzo(j)fluoranthene</b>	<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
<b>Benzo(r,s,t)pentaphene</b>	<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>56-49-5</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
<b>Dibenzo (a,j)acridine</b>	<b>224-42-0</b>	N-Nitrosodi-n-propylamine	621-64-7
<b>Dibenzo (a,h)acridine</b>	<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:

All landscaping, fumigation etc. is handled by qualified contractors.

Flushing/preserving of the non-contact cooling water loop is performed monthly by a qualified contractor using a commercial molybdate-based corrosion inhibitor. Quantities and SDS are available to Ecology/POTW on request.

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):

Minimal risk of grease (primarily fingerprints, etc.) removed during cleaning of aluminum stock. From historical data this is a negligible concern as shown in DMRs submitted.

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) (none)

**Characteristic Wastes** Dangerous Waste Number(s) (none)

Ignitable

Reactive

Corrosive

TCLP

**State Only Dangerous Wastes** Dangerous Waste Number(s) (none)

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  
Eastern Regional Office - Spokane

(509) 575-2490  
(509) 329-3400

<b>SECTION F. SEWER INFORMATION</b>
-------------------------------------

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.

RCRA - extremely small quantity generator - no permit required

## 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: Alderwood Water and Wastewater District)*

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

Scrap Metal

Petroleum or Petrochemical Products

Plating Products

Pesticides

Hazardous Wastes

Acids or Alkalies

Paints/Coatings

Woodtreating Products

Other *(please list): liquid nitrogen and pressurized gas cylinders*

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

Oil/Water Separator

Containment

Spill Prevention

Surface Leachate Collection

Overhead Coverage

Detention Facilities

Infiltration Basins

Operational BMPs

Vegetation Management

Other *(please list): impact is the same as an office-only building*

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.

Small quantities of waste Acetone which are generated are handled and disposed by:  
Safety Kleen, 3102 B Street NW, Auburn, WA 98001 253-561-8270

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

All storage of raw materials, products and wastes occurs inside the building. The only outside storage area is for liquid nitrogen and pressurized gas cylinders. All liquid processes occur in a specially designed 'wet process room' with a floor sump that drains to the POTW/sanitary sewer.

The extremely small quantities of solid wastes that designate as hazardous wastes are handled by the permitted hazardous waste contractor listed in I.1. above.

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:

Alderwood Water and Wastewater District

Treatment Works Owner: \_\_\_\_\_

Street: 3626 156th St SW

City/State: Lynnwood, WA Zip: 98087

\_\_\_\_\_  
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:

[None]

Sewer System Owner: \_\_\_\_\_

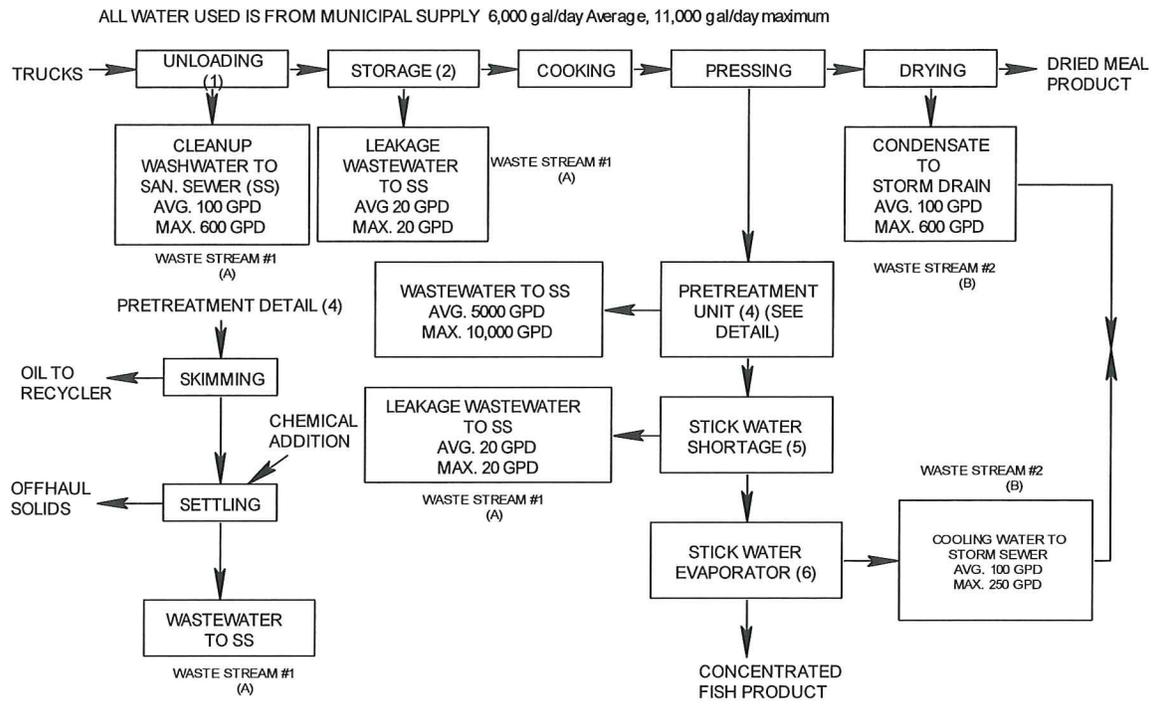
Street: \_\_\_\_\_

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_

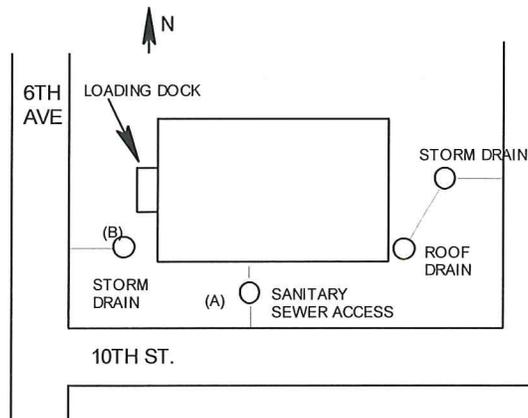
\_\_\_\_\_  
Signature of Sewer System Authority                      Date                      Title

\_\_\_\_\_  
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).

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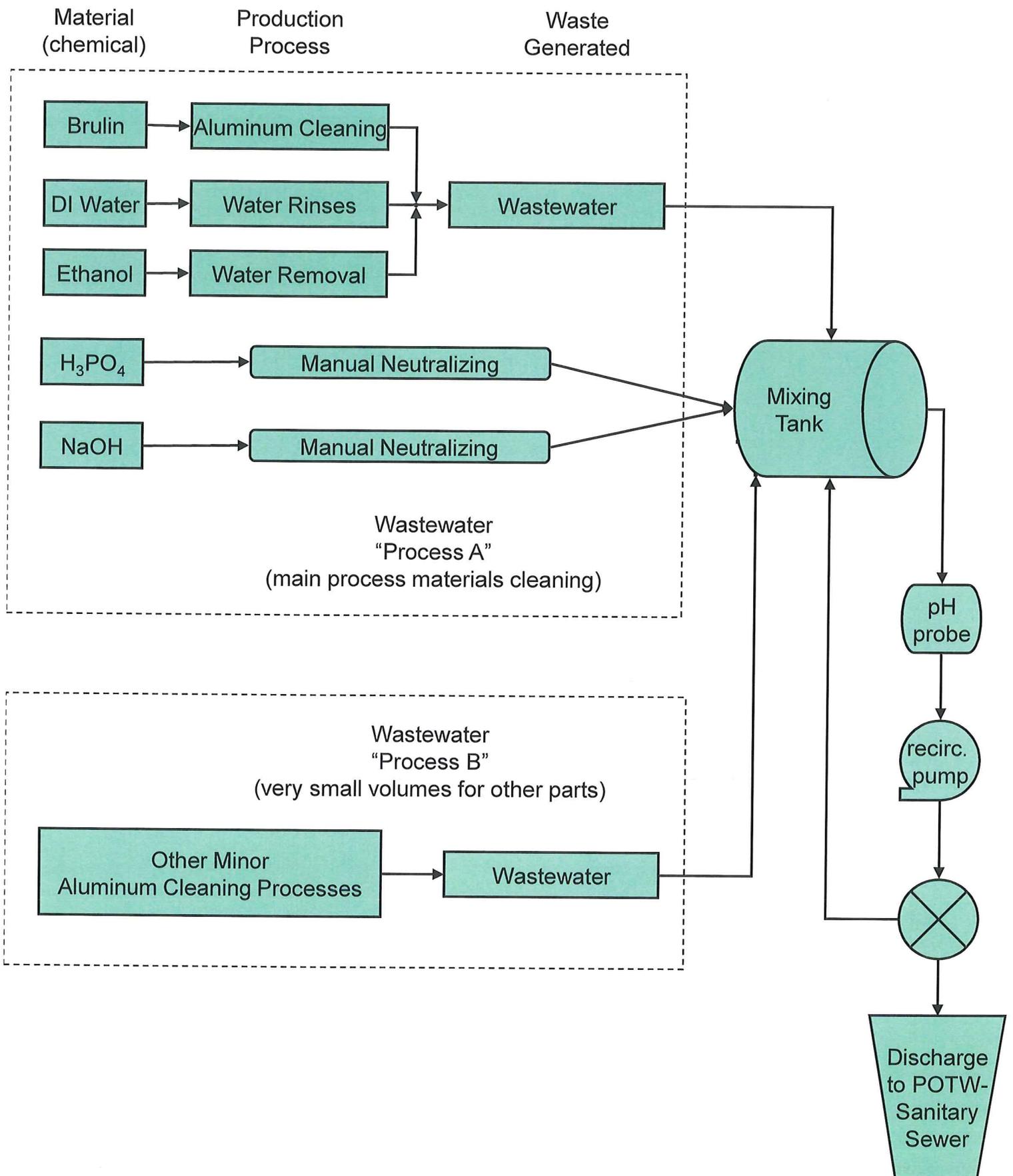
### Summary of Attachments That May be Required for This Application:

*(Please check those attachments that are included)*

- |                                     |                          |      |   |
|-------------------------------------|--------------------------|------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | C.2. | Production schematic flow diagram and water balance |
| <input type="checkbox"/>            | <input type="checkbox"/> | C.4. | Wastewater treatment improvements                   |
| <input type="checkbox"/>            | <input type="checkbox"/> | C.7. | Additional incidental materials                     |
| <input type="checkbox"/>            | <input type="checkbox"/> | E.8. | Additional results of effluent testing              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | F.1. | Facility site map                                   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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.*

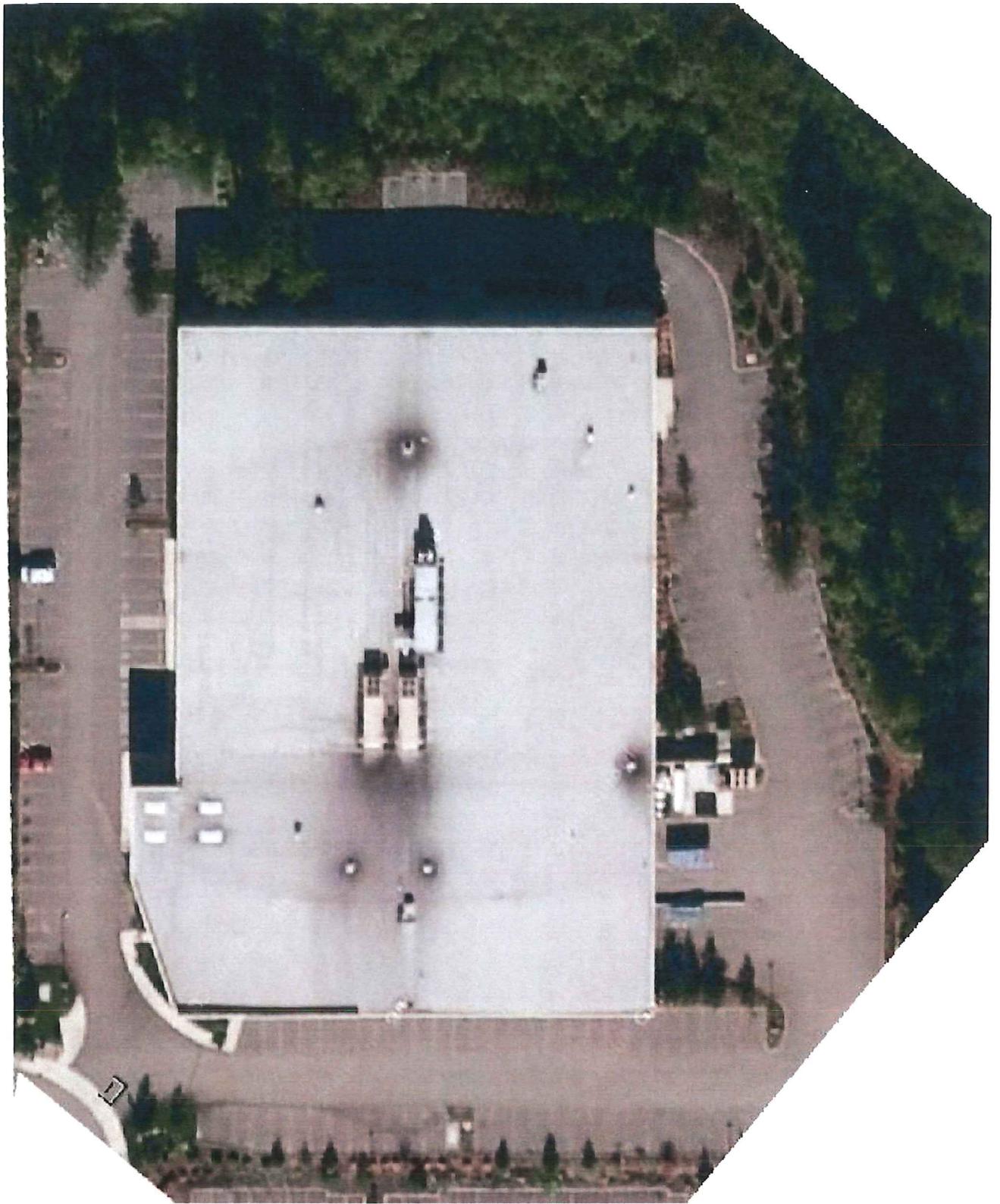
# Attachment C.2. – Novanta/Synrad Wastewater Flow Diagram



## Attachment F.1.a. – Novanta/Synrad Property Layout

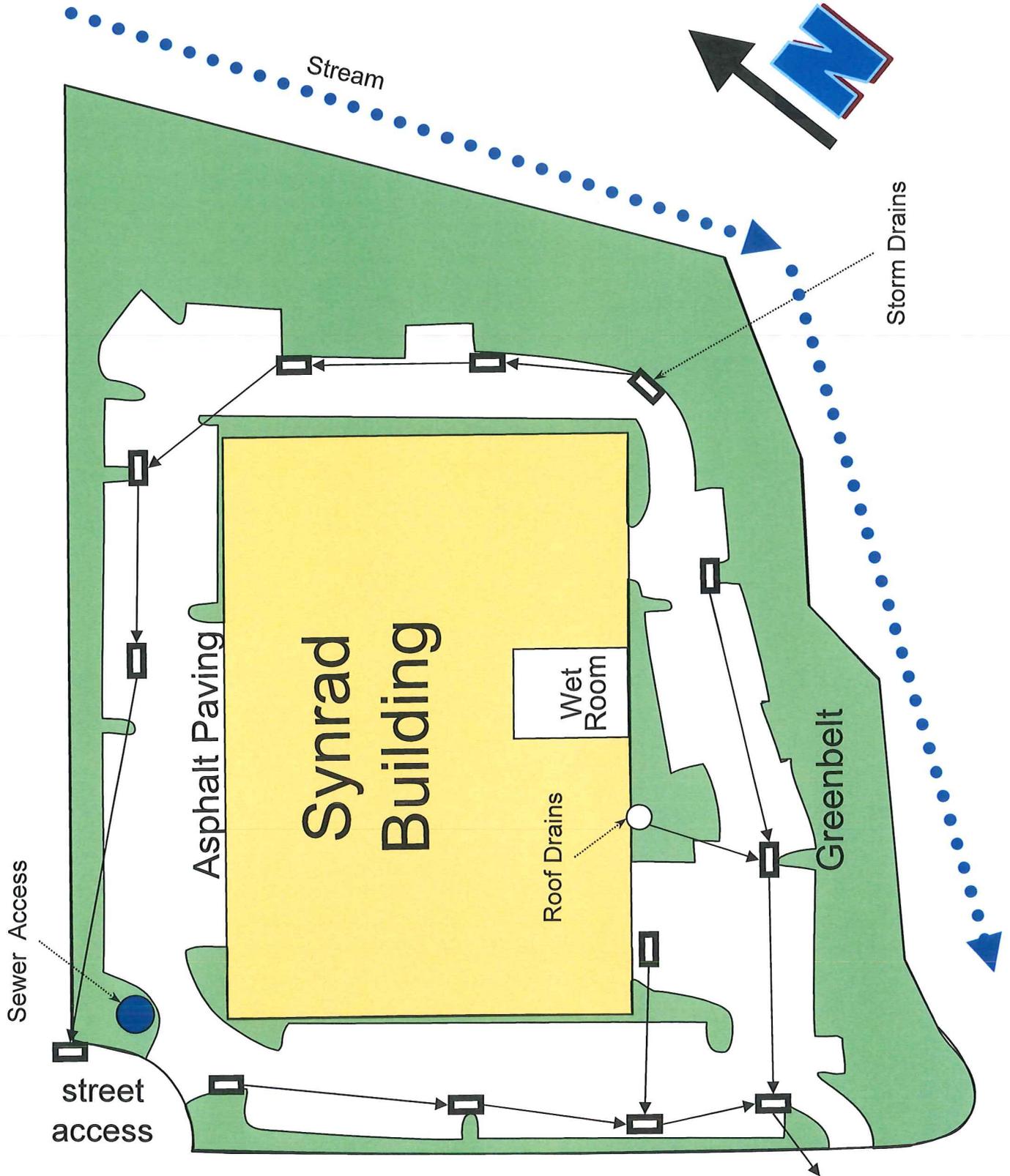
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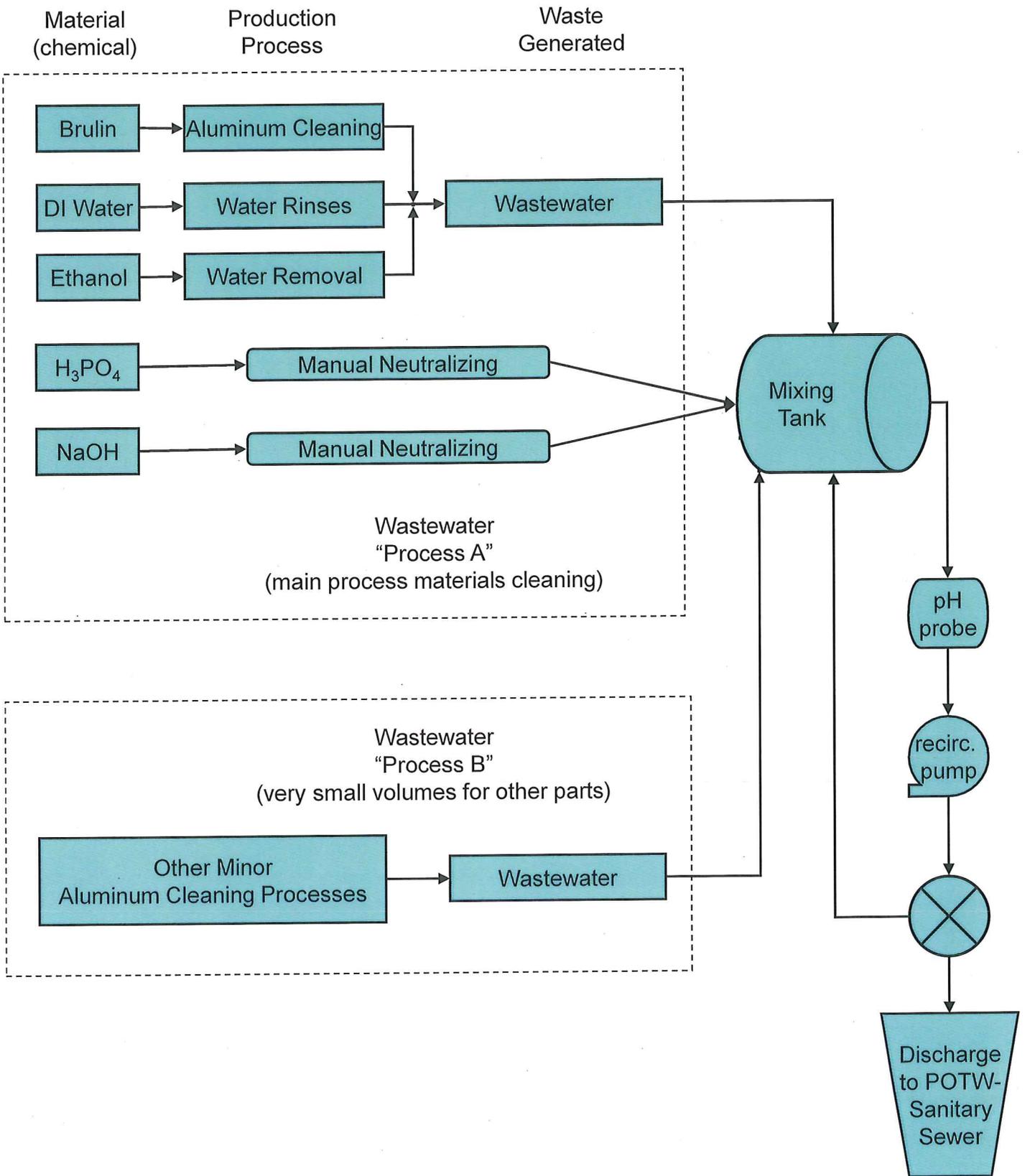
Aerial Photo of Building, pavement and surrounding Greenbelt  
(photo from Google Maps)

Attachments F.1.b./H.5. – Novanta/Synrad Property/Facility Layout



Dec 07, 2008

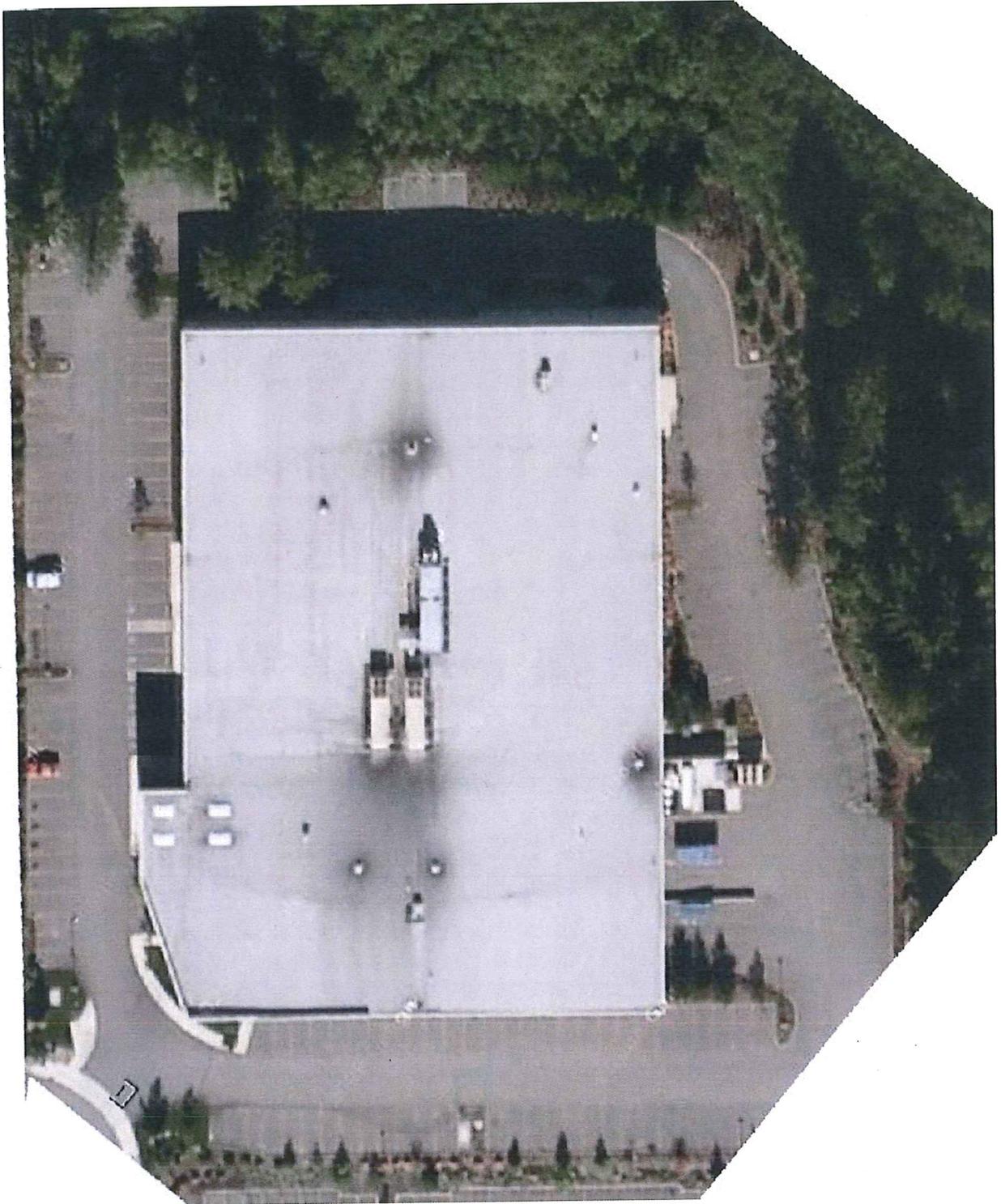
# Attachment C.2. – Novanta/Synrad Wastewater Flow Diagram



Attachment F.1.a. – Novanta/Synrad Property Layout

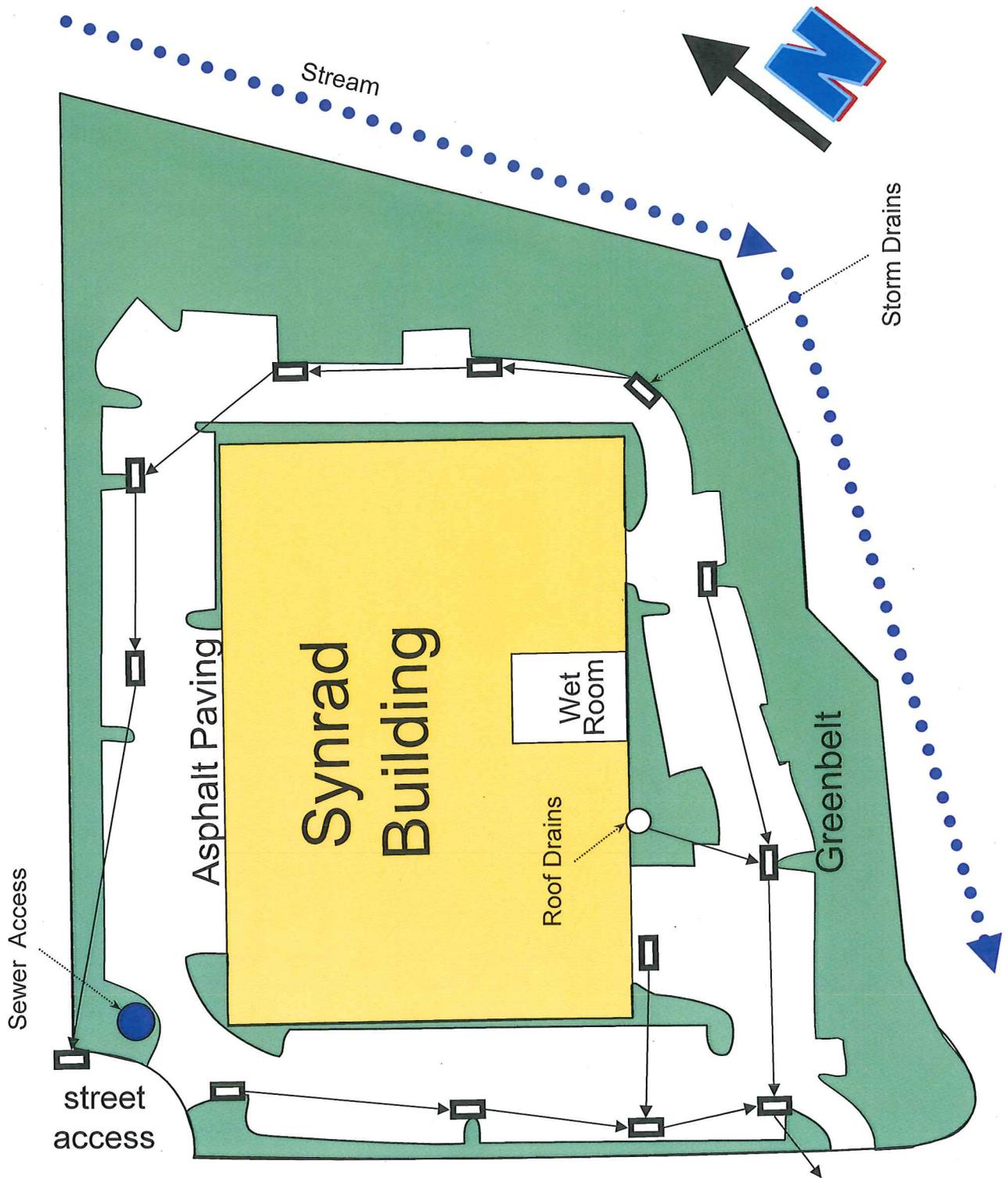
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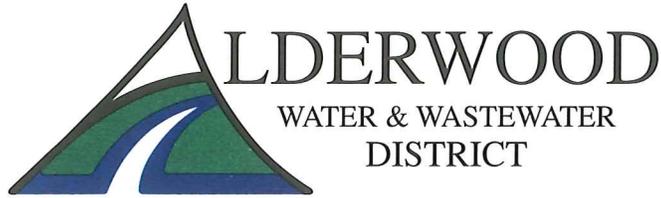


Aerial Photo of Building, pavement and surrounding Greenbelt  
(photo from Google Maps)

Attachments F.1.b./H.5. – Novanta/Synrad Property/Facility Layout



Dec 07, 2008



3626 - 156th St. S.W. • Lynnwood, Washington 98087-5021 • (425) 743-4605 Fax (425) 742-4562

DISCHARGE AUTHORIZATION  
FOR  
SYNRAD COMPANY

Physical Address: 4600 Campus Place Mukilteo, WA 98275

Phone Number: (206) 841-9742 Contact: Gary Tosaya

Industry Type: Manufacturer of laser cutting equipment

ADW Acct. No.: 28801001 Sewer only account

Department of Ecology Permit # ST0007436

Effective Date: 7/01/2017

Expiration Date: 6/30/2022



Discharge from this facility is only allowed when operating under a current State Waste Discharge Permit Issued by Washington Department of Ecology. This Discharge Authorization is being issued to ensure compliance with District restrictions protecting against damage to the AWD Collection System and to protect worker health and safety. For information regarding this Discharge Authorization, please contact Ken Renfro Environmental Compliance Inspector at (425) 787-0250.

**DISCHARGE LIMITATIONS**

As set forth in State Discharge Permit ST0007436. All other District discharge requirements must be met per District Code 6.10.

**REPORTING REQUIREMENTS**

All reports and documents required by Department of Ecology shall be copied to the Alderwood Water District.

## GENERAL CONDITIONS

1. No discharge will be allowed under this discharge authorization without a current State Waste Discharge Permit from Department of Ecology.
2. All requirements and Codes of Alderwood Water District pertaining to the discharge of wastes into the sewer system are a condition of the Discharge Authorization.
3. In the event the industrial user is unable to comply with any conditions of this Discharge Authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, the company shall:
  - (a) Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
  - (b) Immediately notify Alderwood Water District so steps can be taken to prevent damages to the sewer system.
  - (c) Submit a written report describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.

Compliance with these requirements does not relieve the industrial user from responsibility to maintain continuous compliance with the conditions of the Discharge Authorization or the resulting liability for failure to comply.

4. The industrial user shall allow authorized representatives of Alderwood Water District to enter the premises for inspection and/or sampling at reasonable times.
5. Nothing in the Discharge Authorization shall be construed as excusing the industrial user from compliance with any applicable federal, state, or local statutes, ordinances, resolutions, or regulations.
6. This Discharge Authorization does not constitute authority for discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Department of Ecology.
7. This authorization does not authorize discharge after its expiration date. If the industrial user wishes to continue its discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 180 days prior to the expiration date.

Kenneth Renfro



Environmental Compliance Inspector  
Alderwood Water & Wastewater District  
3626 156 St S.W.  
Lynnwood, WA 98087