



# APPLICATION TO DISCHARGE INDUSTRIAL WASTEWATER TO A PUBLICLY-OWNED TREATMENT WORKS (POTW)

This application is for a wastewater 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 the Department of Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Information previously submitted to Ecology that applies to this application should be referenced in the appropriate section. Ecology may request additional information to clarify the conditions of this discharge.

## SECTION A. GENERAL INFORMATION

- Applicant name: Farwest Fabricators, Inc
- Facility name: \_\_\_\_\_  
(if different from applicant)
- Applicant Address: P.O. Box 1247  
Street  
Moxee Wa 98930  
City/State Zip
- Facility Location Address: 7537 Postma Road  
Street  
Moxee Wa 98930  
City/State Zip
- Latitude/longitude of the facility: 46° 33' 49" N 120° 23' 52" W
- Latitude/longitude of the point of discharge to the municipal collection system, if greater than 100 feet from facility location: 46° 33' 49" N 120° 23' 52" W
- UBI Number LD1 573919
- Contact person: Tammy Gabbard  
Name Admin Assistant Title  
509-453-11623 509-453-0594  
Telephone Number Fax Number  
tammyg@farwestfabricators.com  
E-Mail

FOR OFFICE USE ONLY		Check One:	New/Renewal <input type="checkbox"/>	Modification <input type="checkbox"/>
Date Application Received _____	Date Fee Paid _____	Application/Permit No. <u>9193</u>	Date Application Accepted _____	



## SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see *Standard Industrial Classification Manual*, 1987 ed.).

Description: Powder Coating System (SIC - 3144, 3179)  
 unfinished metal parts are hung on a conveyor system. The conveyor take the parts through a 3-stage pretreatment process which washes, rinses and seals the parts. They then pass through the dry off oven. They then proceed through the powder coating booth and sprayed with powder. The powder is baked into the parts in a curing oven. They are sent to the packaging department for shipping to the customer.

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

Type	RAW MATERIALS	Quantity
Secure Seal 5000		15-25 gal / year
Phosphate Cleaner - Secure 2111		330 gal/year
Type	PRODUCTS	Quantity
unfinished sheet metal		Varies
parts made from Stainless steel		
Aluminum		
mild steel		

## SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1. generating 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
phosphate	wash	1	B
rins	rins	2	B
Seal	Seal	3	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. Label as attachment C2.) *C 2-2 attached*

3. What is the maximum daily discharge flow? 5000 gallons/day

What is the maximum average monthly discharge flow (daily flows averaged over a month)? 500 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.)

*N/A*

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each waste stream in gallons per day (GPD). The combined value for each month should equal the estimated total monthly flow.

Waste Stream ID#	MONTHS											
	J	F	M	A	M	J	J	A	S	O	N	D
1	100	100	100	100	100	100	100	100	150	100	100	100
2	300	300	300	300	300	300	300	300	300	300	300	300
3	100	100	100	100	100	100	100	100	100	100	100	100
Estimated Total Monthly Flow (GPD)	500	500	500	500	500	500	500	500	500	500	500	500

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? 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: \_\_\_\_\_  
 \_\_\_\_\_  
 Secure 2111 - 55 gal drum } MSDS sheets  
 Secure 5000 - 5 gal bucket } attached  
 Various colors and quantities of dry powder paint.

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)?  YES  NO
  - b. An Emergency Response Plan (per WAC 173-303-350)?  YES  NO
  - c. A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?  YES  NO
  - d. Any spill or pollution prevention plan required by local, state or federal authorities? If yes, specify: SWPPP  YES  NO
  - e. A Solid Waste Management Plan?  YES  NO
  - f. A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?  YES  NO



## SECTION E. WASTEWATER INFORMATION

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

Intake: tank size

Effluent: tank size

2. 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. Use the analytical methods given in the table unless an alternate method is approved by Ecology. All analyses (except pH) must be conducted by a laboratory registered or accredited by the Department of Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." *See attached results from Casad Analytical*

X	Parameter	Concentrations Measured			Analytical Method Std. Methods 19th edition	Detection Limit
		Minimum	Maximum	Average		
	BOD (5 day)				5210	2 mg/l
	COD				5220 B, C, or D	5 mg/l
	Total Suspended Solids				2540D	1 mg/l
	Total Dissolved Solids				2540 C	
	Conductivity				2510 B	
	Ammonia-N				4500-NH <sub>3</sub> C	20 µg/l
	pH				4500-H	0.1 units
	Total Residual Chlorine				4500-Cl E	1 mg/l
	Fecal Coliform				9222 D	
	Total Coliform				9221 B or 9222 B	
	Dissolved Oxygen				4500-O C or 4500-O G	
	Nitrate + Nitrite-N				4500-NO <sub>3</sub> E	0.5 mg/l
	Total Kjeldahl N				4500-N <sub>org</sub>	20 µg/l
	Ortho-phosphate-P				4500-P E or 4500-P F	1 µg/l

X	Parameter	Concentrations Measured			Analytical Method Std. Methods 19th edition	Detection Limit
		Minimum	Maximum	Average		
	Total-phosphate-P				4500-P B.4.	1 µg/l
	Total Oil & Grease				5520 C	0.2 mg/l
	Total Petroleum Hydrocarbon				5520 D, F	
	Calcium				3500-Ca B	3 µg/l
	Chloride				4500-Cl C	0.15 µg/l
	Fluoride				4500-F D	0.1 mg/l
	Magnesium				3500-Mg B	0.5 µg/l
	Potassium				3500-K B	5 µg/l
	Sodium				3500-Na B	2 µg/l
	Sulfate				4500-SO <sub>4</sub> E	1 mg/l
	Arsenic (total)				3114 B	2 µg/l
	Barium (total)				3500-Ba B	30 µg/l
	Cadmium (total)				3500-Cd B	5 µg/l
	Chromium (total)				3500-Cr B	50 µg/l
	Copper (total)				3500-Cu B	20 µg/l
	Lead (total)				3500-Pb B	100 µg/l
	Mercury				3500-Hg B	0.2 µg/l
	Molybdenum (total)				3500-Mo	1 µg/l
	Nickel (total)				3500-Ni	20 µg/l
	Selenium (total)				3500-Se C	2 µg/l
	Silver (total)				3500-Ag B	10 µg/l
	Zinc (total)				3500-Zn B	5 µg/l

3. Describe the collection method for the samples analyzed above (i.e., grab, 24-hour composite).

grab

4. Has the effluent been analyzed for any other parameters than those identified in question E.2.?

YES  NO

If yes, attach results. (Label as attachment E.4.) This data must clearly show the date, method and location of sampling. (Note: Ecology may require additional testing.)

5. 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? (The number following the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.)

YES  NO

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

Phosphoric Acid and Ammonium Bifluoride are chemicals present in the cleaner and the sealant that we use. They are present in the wastewater. We are currently testing for metals present in the wastewater under the current Dept of Ecology permit.

#### VOLATILE COMPOUNDS

Acrolein (107-02-8)	1,2-Dichloropropane (78-87-5)
Acrylonitrile (107-13-1)	1,3-Dichloropropene (542-75-6)
Benzene (71-43-2)	Ethylbenzene (100-41-4)
Bis (chloromethyl) Ether (542-88-1)	Methyl Bromide (74-83-9)
Bromoform (75-25-2)	Methyl Chloride (74-87-3)
Carbon Tetrachloride (108-90-7)	Methylene Chloride (75-09-2)
Chlorobenzene (108-90-7)	1,1,2,2-Tetrachloroethane (79-34-5)
Chlorodibromomethane (124-48-1)	Tetrachloroethylene (127-18-4)
Chloroethane (75-00-3)	Toluene (108-88-3)
2-Chloroethylvinyl Ether (110-75-8)	1,2-Trans-Dichloroethylene (156-60-5)
Chloroform (67-66-3)	2, 1,1,1-Trichloroethane (71-55-6)
Dichlorobromomethane (75-27-4)	2, 1,1,2-Trichloroethane (79-00-5)
Dichlorodifluoromethane (75-71-8)	2, Trichloroethylene (79-01-6)
1,1-Dichloroethane (75-34-3)	Trichlorofluoromethane (75-69-4)
1,2-Dichloroethane (107-06-2)	
1,1-Dichloroethylene (75-35-4)	
Vinyl Chloride (75-01-4)	

#### ACID COMPOUNDS

2-Chlorophenol 95-57-8	4-Nitrophenol 100-02-7
2,4-Dichlorophenol 120-83-2	p-Chloro-M-cresol 59-50-7
2,4-Dimethylphenol 105-67-9	Pentachlorophenol 87-86-5
4,6-Dinitro-o-cresol 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	

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### METALS

Antimony 7440-36-0  
Arsenic 7440-38-2  
Beryllium 7440-41-7  
Cadmium 7440-43-9  
Chromium 7440-47-3  
Copper 7440-50-8  
Lead 7439-92-1

Mercury 7439-97-6  
Nickel 7440-02-0  
Selenium 7782-49-2  
Silver 7440-22-4  
Thallium 7440-28-0  
Zinc 7440-66-6  
Cyanide 57-12-5

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### PESTICIDES

Aldrin 309-00-2  
alpha-BHC 319-84-6  
beta-BHC 319-85-7  
gamma-BHC 58-89-9  
delta-BHC 319-86-8  
Chlordane 57-74-9  
4,4'-DDD 72-54-8  
4,4'-DDE 72-55-9  
4,4'-DDT 50-29-3  
Dieldrin 60-57-1

Endosulfan I 115-29-7  
Endosulfan II 115-29-7  
Endosulfan Sulfate 1031-07-8  
Endrin 72-20-8  
Endrin Aldehyde 7421-93-4  
Heptachlor 76-44-8  
Heptachlor Epoxide 1024-57-3  
PCB (7 Aroclors)  
Toxaphene 8001-35-2

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### BASE/NEUTRAL COMPOUNDS

Acenaphthene 83-32-9  
Acenaphthylene 208-96-8  
Anthracene 120-12-7  
Benzidine 92-87-5  
Benzo(a)anthracene 56-55-3  
Benzo(a)pyrene 50-32-8  
3,4-Benzofluoranthene 205-99-2  
Benzo(ghi)Perylene 191-24-2  
Benzo(k)fluoranthene 207-08-9  
Bis(2-chloroethoxy) Methane 111-91-1  
Bis(2-chloroethyl) Ether 111-44-4  
Bis(2-chloroisopropyl) Ether 102-60-1  
Bis(2-ethylhexyl) Phthalate 117-81-7  
4-Bromophenyl Phenyl Ether 101-55-3  
Butyl Benzyl Phthalate 85-68-7  
2-Chloronaphthalene 91-58-7  
4-Chlorophenyl Phenyl Ether 7005-72-3  
Chrysene 218-01-9  
Dibenzo(a,h)anthracene 53-70-3  
1,2-Dichlorobenzene 95-50-1  
1,3-Dichlorobenzene 541-73-1  
1,4-Dichlorobenzene 106-46-7  
3,3-Dichlorobenzidine 91-94-1

Diethyl Phthalate 84-66-2  
Dimethyl Phthalate 131-11-3  
Di-n-butyl Phthalate 84-74-2  
2,4-Dinitrotoluene 121-14-2  
2,6-Dinitrotoluene 606-20-2  
Di-n-octyl Phthalate 117-84-0  
1,2-Diphenylhydrazine 122-66-7  
Fluoranthene 206-44-0  
Fluorene 86-73-7  
Hexachlorobenzene 118-74-1  
Hexachlorobutadiene 87-68-3  
Hexachlorocyclopentadiene 77-47-4  
Hexachloroethane 67-72-1  
Indeno(1,2,3-cd)pyrene 193-39-5  
Isophorone 78-59-1  
Naphthalene 91-20-3  
Nitrobenzene 98-95-3  
N-nitrosodimethylamine 62-75-9  
N-nitrosodi-n-propylamine 621-64-7  
N-nitrosodiphenylamine 86-30-6  
Phenanthrene 85-01-8  
Pyrene 129-00-0  
1,2,4-Trichlorobenzene 120-82-1

6. Are any other pesticides, herbicides or fungicides used at this facility?  YES  NO  
If yes, specify the material and quantity used: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Are there other pollutants that you know of or believe to be present?  YES  NO  
If yes, specify the pollutants and their concentration, if known:  
(Attach laboratory analyses, if available.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. 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  
*Jy*

9. If the answer to question 8 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**

- Ignitable
- Reactive
- Corrosive
- TCLP

Dangerous Waste Number(s) \_\_\_\_\_

**State Only Dangerous Wastes**

- 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 the attachment F.1. (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.

State Wastewater Discharge Permit # ST-9193  
Industrial Stormwater General Permit # 5030013070  
registered with Yakima Regional Clean Air Authority  
as a minor

**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. 503001307

If no, have you applied for a Washington State Industrial Stormwater NPDES 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 a storm sewer system (provide name of storm sewer system operator: City of Mexico)  
 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).  
 Directly to ground waters of Washington State by means of:  
 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)*

- |  |   |
|--|---|
| <input type="checkbox"/> Solvents                            | <input type="checkbox"/> Hazardous Wastes                   |
| <input checked="" 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.

The sludge that is generated is a non-hazardous solid waste consisting of dirt, sand and silicates with a very small amount of oil/grease. Upon collecting of this sludge it is put into a 55 gal drum and stored within a covered self-contained waste storage unit. Sludge is disposed of through

ph. 509-497-8242 PSC Environmental Services  
3725 North Jason Street  
Suite 1  
Pasco WA 99301

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

The cleaning chemicals are stored next to their respective tank.

Raw powder is stored outside the powder coating room along the load area wall.

Any sludge cleaned from the tanks is stored in a 55 gal drum in a covered self-contained unit until time of disposal.

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: City of Yakima

Street: 2220 E. Viola Ave

City/State: Yakima, WA Zip: 98901

[Signature] 10/25/11 WASTEWATER DIVISION MANAGER  
Signature of Treatment Works Authority Date Title

SCOTT SCHAFER  
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: \_\_\_\_\_  
City of Moxee Collection System  
\_\_\_\_\_  
\_\_\_\_\_

Sewer System Owner: City of Moxee

Street: P.O. Box 249

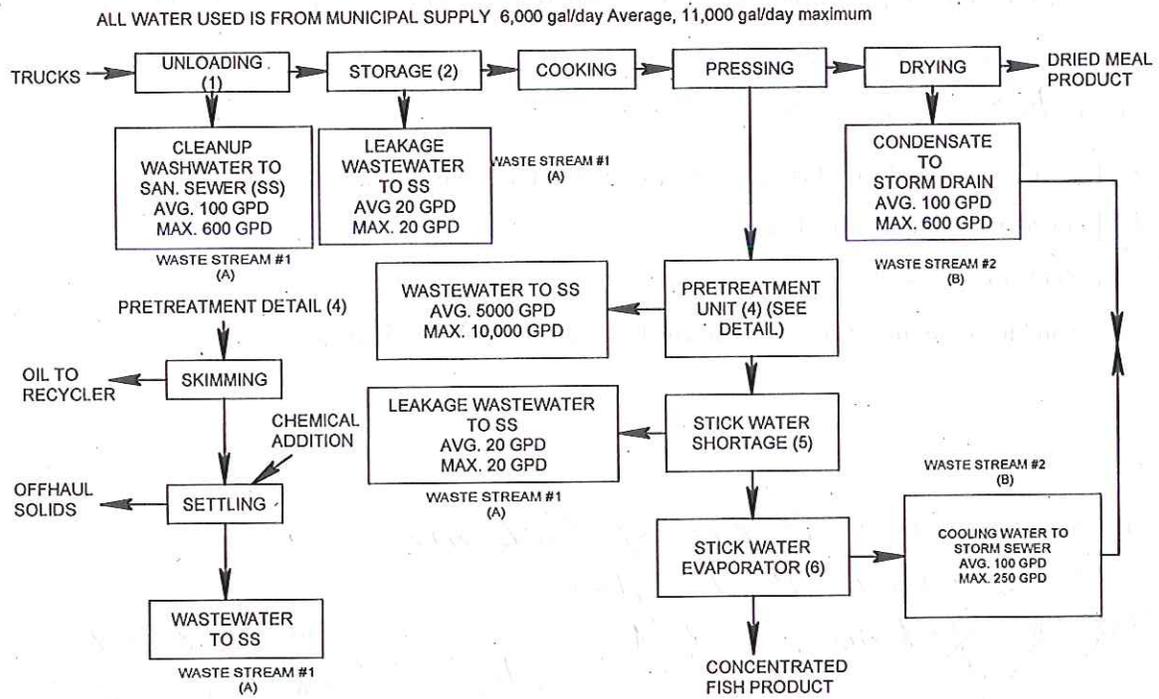
City/State: Moxee WA Zip: 98936

Byron Adams 10-24-11 City Supervisor  
Signature of Sewer System Authority Date Title

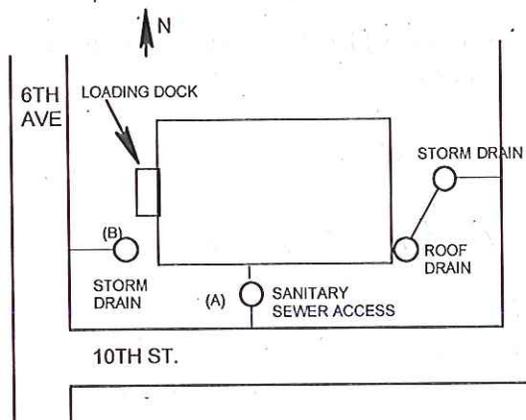
Byron Adams  
Printed Name

Harold A Weber - Teressa Hight Sewer Dist.  
for Norm Alderson - manager. 10-24-11  
186 Iron Horse Cir. # 100. Yak. 98901

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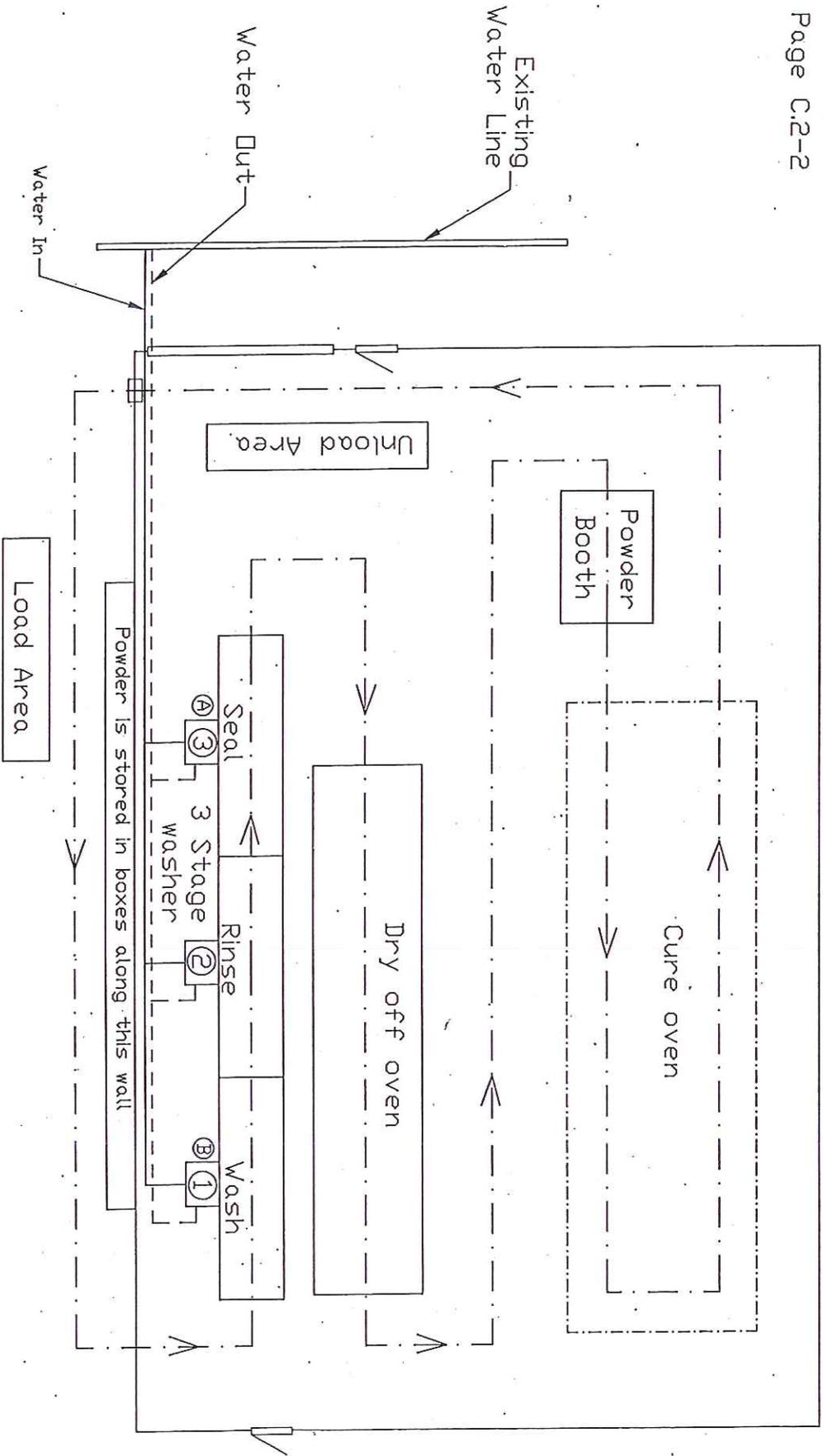
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### Summary of Attachments That May be Required for This Application:

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

Farwest Fabricators  
 Production Flow Schematic Diagram  
 Not to scale



All water used is from municipal supply

- 1. 1200 gallon tank
- 2. 1000 gallon tank
- 3. 800 gallon tank
- A. location of stage 1 washer chemical
- B. location of stage 3 sealant chemical