



Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to Ground Water by Land Treatment or Application

This application is for a state waste discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of 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: Kyle Mathison Orchards

2. Facility name: Stemilt World Famous Compost
(if different from applicant)

3. Applicant mail address: 4597 Stemilt Hill Road
Street

Wenatchee, WA 98801
City/State Zip

4. Facility location address: 4471 Stemilt Hill Road
(if different from above) Street

Wenatchee, WA 98801
City/State Zip

5. UBI No. 6029570 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.
41

6. Latitude/longitude of the processing facility as decimal degrees (NAD83/WGS84):
47.35194444 / -120.26941944

RECEIVED
FEB 27 2019
Dept of Ecology
Central Regional Office

FOR ECOLOGY USE ONLY	Check One	New/Renewal <input type="checkbox"/>	Modification <input type="checkbox"/>	
Date application received		Application/Permit no.		
Date application accepted		Date fee paid		

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

Ben Alworth

Name

Director of Support Operations

Title

509.662.3613

Telephone number

509.663.9461

Fax number

8. Check One:

Permit renewal (including renewal of temporary permits authorized by RCW 90.48.200)

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.

Ben D. Cho

Signature

2/25/2019

Date

Director of Support Operations

Title

Benjamin D. Alworth

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

Date

Title or function at the facility

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: Applicable NAICS code = 325314 or SIC code = 2875. The compost facility was permitted in 2008 and has been operating ever since. Raw Feedstock Material is stored and processed on the compost pad. In a rain event the runoff from the asphalt pad runs from the pad through a steel pipe to a series of concrete catch basins. The catch basins are piped directly to the impervious leachate pond. The leachate is used to irrigate the compost rows and allowed to evaporate. This permit request is to use the leachate in our irrigation system to irrigate the 100 acres as shown on the attached map. The leachate will be piped from the compost leachate pond to the orchards where it will be mixed with water and used to irrigate the orchards shown.

- List raw materials and products:

Type	RAW MATERIALS	Quantity
<i>Potatoes (Example)</i>		<i>20 million tons per year</i>
2017 Yard Waste		38,000 CY
2017 Wood Chips		6,500 CY
2017 Waste Fruit		7,000 CY
2017 Horse Manure		2,700 CY
2017 Cow Manure		2,000 CY
Type	PRODUCTS	Quantity
<i>French fries (Example)</i>		<i>10 million pounds per year</i>
Finished Compost in 2017		20,000 CY per Year
Finished Compost Permitted Full Capacity		30,000 CY per 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 ID #, and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
<i>Receiving raw potatoes (Example)</i>	<i>Mud Water</i>	<i>1</i>	<i>C</i>
Compost Pad Rainfall	Leachate	1	Batch

2. On a separate sheet, produce a schematic drawing showing production processes and water flow through the facility and wastewater treatment devices (*label as attachment C2*). The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent and should label the treatment units. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a description of the nature and amount of any sources of water and any collection or treatment measures.

3. What is the highest daily discharge flow from the processing facility: 48,000 gallons per day
(Specify the time period for the value given)

What is the highest daily discharge flow to the sprayfields/infiltration basin: inches/acre/month OR
(Specify the time period for the value given) 144,000 gallons per day

What is the highest average monthly discharge flow (daily flows averaged over a month) from the processing facility: 33,333 gallons/day?
(Specify the time period for the value given)

What is the highest average monthly discharge flow to the sprayfields: inches/acre/month OR
(Specify the time period for the value given) 100,800 gallons per day

4. Describe any planned wastewater treatment or sprayfield/infiltration improvements and the schedule for the improvements or changes. (*Use additional sheets, if necessary and label as attachment C4.*)
None, mix leachate with water to a dilution rate of at least 100 gpm leachate to 200 gpm clean water

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each wastestream in gallons or million gallons per month. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper 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
#1 (Example)	1000	1000	1000	1000	6000	2000	2000	2000	1000	1000	5000	4000
#1	255000	185000	110000	100000	135000	125000	65000	40000	60000	95000	265000	300000
Estimated total gallons	255000	185000	110000	100000	135000	125000	65000	40000	60000	95000	265000	300000

6. If this is a discharge from the processing facility to a storage or evaporative lagoon, what is the size of the lagoon (give square footage for the bottom of the lagoon and the total volume of the lagoon at full operating depth). 10,000 square feet; 10 million gallons (Example)

Single EPDM 60 mil Lined Compost Site Leachate Pond Capacity = 200,000 cubic feet or 1,500,000 gallons. The estimated total gallons per month listed in item 5 includes the estimated precipitation over 70% of the 10 acre compost pad (at least 30% covered by compost and soaked up by the compost). The estimated gallons in the months of May through October are evaporated or recycled into making new compost.

7. Check the applicable box. Is this a discharge to a sprayfield or an infiltration bed ? Provide the average gallons per acre per day proposed for each month in the following table.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct	Nov	Dec
Estimated gallons per acre per day			240	480	480							

8. How many hours a day does this facility typically operate? 9
 How many days a week does this facility typically operate? 6
 How many weeks per year does this facility typically operate? 52
9. 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 pound quantities for solids). For solvents and solvent-based cleaners, include a copy of the material safety data sheet for each material and estimate the quantity used. *Use additional sheets, if necessary and label as attachment C.7.)*

Materials/Quantity Stored: None

- | | | Yes | No |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 10. | 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"/> |
| d. | A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. | Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: <u>Rainfall Runoff from Compost on Approved Impermeable Surface</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. | A solid waste control plan? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

Public system (Specify name) _____

Private well Surface water (Specify name of water body) _____

a. Water right permit number: _____

b. Legal description of water source:

_____ ¼S, _____ ¼S, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use: Gallons per day (average) _____

Gallons per day (maximum) _____

b. Is water metered? YES NO

3. Supplemental Irrigation water source(s):

Public system or Irrigation District (Specify name) Lower Stemilt Irrigation District

Private well Surface water (Specify name of water body) _____

a. Water right permit number: 29535P

b. Legal description of water source:

N ¼S, E ¼S, 19, Section, 22N TWN, 21E R

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SECTION E. WASTEWATER INFORMATION

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

Intake: Estimated by depth of leachate pond currently, meters to be installed

Effluent Measured by duration of pump run time currently, meters to be installed

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (incl. 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. (*No may require additional testing.*)

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters w in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a sub parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (V 216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely me parameters measured only for this application, place the values under "Maximum." Report the values with units as specified i 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 unless Ecology approves an alternate method **or the method used produces measurable results in the sample and EPA has listed EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the DL, and QL on the discharge monitoring report or in the required report.**

Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 th , 20 th edition or EPA	Detect Limit/Quarter Level
	Minimum	Maximum	Average			
D (5 day)	465	555	508	8	SM 5210 B	/2 mg
D					SM 5220 D	/10 mg
al suspended solids					SM 2540 D	/5 mg
ed Dissolved Solids					SM 2540 E	
al dissolved solids					SM 2540 C	
nductivity (microhm/cm)			1540	1	SM 2510 B	
monia-N as N					SM 4500-NH ₃ C	/0.3 mg
			7.35	1	SM 4500-H	0.1 standa
al coliform organisms/100 mL)	2800	2800	2800	1	SM 9221 E or 9222 D	
al coliform organisms/100 mL)					SM 9221 B or 9222 B	
olved oxygen	1	2.7	1.88	10	SM 4500-O C/G	
rate + nitrite-N as N			.16 mg/L	1	SM 4500-NO ₃ E	100 µg
al kjeldahl N as N			16.4 mg/L	1	SM 4500-N _{org} C/E/FG	300 µg
ho-phosphate-P as P					SM 4500-P E/F	10 µg
al-phosphorous-P as P			2.76 mg/L	1	SM 4500-P E/P/F	10 µg
al Oil & grease					EPA 1664A	1.4/5 mg
TPH - Dx					Ecology NWTPH Dx	250/250
TPH - Gx					Ecology NWTPH Gx	250/250
lcium					EPA 200.7	10 µg
loride					SM 4500-Cl C	0.15 µg
oride					SM 4500-F E	.025/0.1
gnesium					EPA 200.7	10/50 µg
assium			256	1	EPA 200.7	700/ µg
dium					EPA 200.7	29/ µg
lfate					SM 4500-SO ₄ C/D	/200 µg
alinity as CaCO ₃					SM 2320 B	/5 mg/L as

Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 th , 20 th edition or EPA	Detect Limit/Quantitation Level
	Minimum	Maximum	Average			
Asenic(total)			13.9	1	EPA 200.8	0.1/0.5
Barium (total)			179	1	EPA 200.8	0.5/2.5
Bismuth (total)			.3	1	EPA 200.8	.05/1.25
Bromine (total)			6	1	EPA 200.8	0.2/1.5
Copper (total)			20.2	1	EPA 200.8	0.4/2.5
Chromium (total)					EPA 200.7	12.5/50
Cadmium (total)			1.4	1	EPA 200.8	0.1/1.5
Manganese (total)					EPA 200.8	0.1/0.5
Mercury (total) pg/L			.3	1	EPA 1631E	0.2/0.5
Molybdenum(total)			5.9	4	EPA 200.8	0.1/0.5
Nickel(total)			18.8	4	EPA 200.8	0.1/0.5
Selenium (total)			4	1	EPA 200.8	1/1 µg/L
Silver (total)					EPA 200.8	.04/1.2
Cadmium (total)			47.9	1	EPA 200.8	0.5/2.5

Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.

Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to $(1, 2, \text{ or } 5) \times 10^n$, where n is an integer. (64 FR 30417).

ALSO GIVEN AS:

The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).

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3. DOES THIS FACILITY USE ANY OF THE FOLLOWING CHEMICALS AS RAW MATERIALS IN PRODUCTION, 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 (Use additional sheets, if necessary and label as attachment E5.):

Acrylamide/79-06-1	Nitrofurazone/59-87-0	Heptachlor/76-44-8
Acrylonitrile/107-13-1	N-nitrosodiethanolamine/1116-54-7	Heptachlor epoxide/1024-57-3
Aldrin/309-00-2	N-nitrosodiethylamine/55-18-5	Hexachlorobenzene/118-74-1
Aniline/62-53-3	N-nitrosodimethylamine/62-75-9	Hexachlorocyclohexane (alpha)/319-84-6
Aramite/140-57-8	N-nitrosodiphenylamine/86-30-6	Hexachlorocyclohexane (tech.)/608-73-1
Arsenic/7440-38-2	N-nitroso-di-n-propylamine/621-64-7	Hexachlorodibenzo-p-dioxin, mix/19408-74-3
Azobenzene/103-33-3	N-nitroso-di-n-butylamine/924-16-3	Hydrazine/hydrazine sulfate/302-01-2
Benzene/71-43-2	N-nitroso-n-methylethylamine/10595-95-6	Lindane/58-89-9
Benzidine/92-87-5	PAH/NA	Lindane/58-89-9
Benzo(a)pyrene/50-32-8	PBBs/NA	2 Methylamine/100-61-8
Benzotrithloride/98-07-7	PCBs/1336-36-3	2 Methylamine hydrochloride/636-21-5
Benzyl chloride/100-44-7	1,2 Dichloropropane/78-87-5	4,4' Methylene bis(N,N-dimethyl)aniline/101-61-1
Bis(chloroethyl)ether/111-44-4	1,3 Dichloropropane/542-75-6	Methylene chloride (dichloromethane)/75-09-2
Bis(chloromethyl)ether/542-88-1	Dichlorvos/62-73-7	Mirex/2385-85-5
Bis(2-ethylhexyl) phthalate/117-81-7	Dieldrin/60-57-1	O-phenylenediamine/106-50-3
Bromodichloromethane/75-27-4	3,3' Dimethoxybenzidine/119-90-4	Propylene oxide/75-56-9
Bromoform/75-25-2	3,3 Dimethylbenzidine/119-93-7	2,3,7,8-Tetrachlorodibenzo-p-dioxin/1746-01-6
Carbazole/86-74-8	1,2 Dimethylhydrazine/540-73-8	Tetrachloroethylene/127-18-4
Carbon tetrachloride/56-23-5	2,4 Dinitrotoluene/121-14-2	2,4 Toluenediamine/95-80-7
Chlordane/57-74-9	2,6 Dinitrotoluene/606-20-2	o-Toluidine/95-53-4
Chlorodibromomethane/124-48-1	1,4 Dioxane/123-91-1	Toxaphene/8001-35-2
Chloroform/67-66-3	1,2 Diphenylhydrazine/122-66-7	Trichloroethylene/79-01-6
Chlorthalonil/1897-45-6	Endrin/72-20-8	2,4,6-Trichlorophenol/88-06-2
2,4-D/94-75-7	Epichlorohydrin/106-89-8	Trimethyl phosphate/512-56-1
DDT/50-29-3	Ethyl acrylate/140-88-5	Vinyl chloride/75-01-4
Diallate/2303-16-4	Ethylene dibromide/106-93-4	
1,2 Dibromoethane/106-93-4	Ethylene thiourea/96-45-7	
1,4 Dichlorobenzene/106-46-7	Folpet/133-07-3	
3,3' Dichlorobenzidine/91-94-1	Furmecyclox/60568-05-0	
1,1 Dichloroethane/75-34-3		
1,2 Dichloroethane/107-06-2		

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

1 cup of roundup mixed with water and used on the top of the compost leachate pond perimeter twice a year Spring and Summer

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). DON'T KNOW

SECTION F. GROUND WATER INFORMATION

Provide available data measurements or range of measurements from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____
(*example AAB123*)

Well ID # _____ (*example MW-1*)

Latitude: _____

Longitude: _____

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard mean sea level

Parameter	Units	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
BOD (5 day)	mg/L				
COD	mg/L				
Total organic carbon	mg/L				
Total dissolved solids	mg/L				
Dissolved Fixed Solids	mg/L				
pH	Standard units				
Conductivity	(micromhos/cm)				
Alkalinity	mg/L as CaCO ₃				
Total hardness	mg/L				
Fecal coliform	organisms/100mL				
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N	mg/L				
Nitrate + nitrite-N, nitrate as N	mg/L				
Total kjeldahl N as N	mg/L				
Ortho-phosphate-P as P	mg/L				
Total-phosphate-P as P	mg/L				
Total Oil and Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Chloride	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Fluoride	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Magnesium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Potassium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Sodium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Sulfate	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Barium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Cadmium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Chromium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Copper	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Iron	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				

Parameter	Units	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
Mercury	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Selenium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Silver	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Zinc	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Depth to water level (to the nearest .01 feet)					

SECTION G. SITE ASSESSMENT

The local library and local city or county planning offices may be helpful in providing the information required in this section. You may consult the Department of Ecology Water Resources Program to help identify wells within one mile of your site.

1. Land Application Sites: Provide the information below for each land application site. Provide the latitude/longitude (approximate center of the site; NAD83/WGS84 reference datum.) Attach a copy of the contract(s) authorizing use of any private land(s) used for each treatment site. Add table rows as necessary.

Legal Description (section/township/range) See the attached G.1. Table			
Latitude	Longitude	Acreage	Owner
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner

2. If this is a new discharge, list all environmental control permits or approvals needed for this project; for example, SEPA review, engineering reports, hydrogeologic reports, , , or air emissions permits.

No other permits are known for the use of leachate water as irrigation

3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map and aerial photograph(s) from an internet mapping site that shows the processing facility and sprayfield site(s). **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206 588-5222), some local bookstores, and internet sites.** Show the following on this map:
 - a. Location and name of internal and adjacent streets.
 - b. Surface water drainage systems within ¼ mile of the site.
 - c. All wells within 1 mile of the site.
 - d. Wastewater discharge points.
 - e. Land uses and zoning adjacent to the wastewater application site.
 - f. Groundwater gradient.
4. Describe the soils on the site using information from local soil survey reports. **Soils information is available from your local County Conservation District or from information contained in the sites hydrogeologic report.** *(Submit on separate sheet and label as attachment G.4.)*
5. Describe the local geology and hydrogeology within one mile of the site. Include any groundwater quality data. **The local library or local Soil Conservation Service may have this information.** *(Submit on separate sheet and label as attachment G.5.)*
6. List the names and addresses of contractors or consultants who provided information and cite sources of information by title and author.

H.8: Consultant: Stormwater Management Plan and Leachate Collection Report, 4/18/2008 by Pacific Engineering & Design, PLLC

H.8 Consultant: Compost Pad Grading and Paving - Stormwater Drainage Memorandum, 7/28/2017 by Torrence Engineering, LLC

H.8 Consultant: Engineering Reports, Plans, and Specifications, 5/16/2008 by O2 Compost Contractor: Selland Construction, Wenatchee, WA

G.5 Consultant: Subsurface Soil Evaluation Letter, 5/13/2008 by Nelson Geotechnical Associates, Inc.

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 coverage under the Washington State Industrial Stormwater NPDES general permit? YES NO

Note: If you answered "no" to both questions above, complete the following questions 2 through 8.

2. Describe the size of the stormwater collection area.
- a. Unpaved area _____ sq.ft.
 - b. Paved area 435,600 sq.ft.
 - c. Other collection areas (roofs) _____ sq.ft.
3. Does your facility's stormwater discharge to: *(Check all that apply)*
- Storm sewer system; name of storm sewer system *(operator)*:
 - Sanitary sewer
 - Directly to surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean)*.
Specify waterbody name _____
 - Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first)*.
 - Directly to ground waters of Washington State via:
 - Dry well
 - Drainfield
 - Other
4. 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 _____

5. 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 alkalis |
| <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 storm water discharges: *(check all that apply)*

- | | |
|-----------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Oil/water separator | <input checked="" type="checkbox"/> Detention facilities |
| <input type="checkbox"/> Containment | <input checked="" type="checkbox"/> Infiltration basins |
| <input type="checkbox"/> Spill prevention | <input type="checkbox"/> Operational BMPs |
| <input checked="" type="checkbox"/> Surface leachate collection | <input type="checkbox"/> Vegetation management |
| <input type="checkbox"/> Overhead coverage | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

6. Attach a 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. Label this as attachment H.8.

SECTION I. OTHER INFORMATION

1. Describe liquid or solid wastes generated that are not disposed of in the waste stream(s) and describe the method of disposal. For each type of waste, provide type of waste, name, address, and phone number of hauler.

All plastic or metal trash found in the feedstock material is gathered and hauled off by

Waste Management

Greater Wenatchee Landfill

1-877-466-4668

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

Raw Feedstock Material is stored and processed on the compost pad. In a rain event the runoff from the asphalt pad runs from the pad through a steel pipe to a series of concrete catch basins.

The catch basins are piped directly to the impervious leachate pond. The leachate is used to irrigate the compost rows and allowed to evaporate. This permit request is to use the leachate in our irrigation system to irrigate the 100 acres as shown on the attached map. The leachate will be piped from the compost leachate pond to the orchards where it will be mixed with water and used to irrigate the orchards shown.

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
- G.1. Copies of land use contracts
- G.3. USGS topographical map
- G.4. Soils description
- G.5. Local geology and hydrology
- H.8. 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.