





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.*

West Burkhead

Signature\*

10-02-12

Date

MANAGER/OPERATOR

Title

WES BURKHEAD

Printed Name

\*Applications must be signed by either a principal executive officer or a ranking elected official. If these titles do not apply to your organization, the person who makes budget decisions for this facility must sign the application. For state facilities, this is typically a program manager.

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. TREATMENT PLANT INFORMATION

1. Identify all industries, commercial facilities or communities discharging to this publicly owned treatment works (POTW) by name, type of industry, address, telephone number and contact name. Attach extra sheet(s) if needed and label as attachment B1.

	INDUSTRY #1	INDUSTRY #2
NAME:	N / A	
INDUSTRY:		
ADDRESS:		
TELEPHONE:		
CONTACT NAME:		
INDUSTRIAL PRODUCT(S):		

2. POTW design and operation manuals available for this treatment facility:

Type of Manual	Date	Is there a copy at the POTW?
<input type="checkbox"/> Engineering Report		<input type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> Operation and Maintenance Manual	12/20/99	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> Crop Management Plan		<input type="checkbox"/> YES <input type="checkbox"/> NO
<input type="checkbox"/> Sprayfield Management Plan		<input type="checkbox"/> YES <input type="checkbox"/> NO

3. POTW Design Data:

a. Average Influent Flow for Maximum Month (MGD):	0.056
b. Influent BOD Load (lbs/day):	131
c. Influent SS Load (lbs/day):	N / A
d. Began Operation (year):	1979
e. Last Major Upgrade (year):	1987
f. Planned Upgrades (year):	NONE
g. Design Population:	655
h. Actual Population:	162
i. Sprayfield loading - attach copy of the irrigation schedule if schedule is available	

4. Are there plans to modify this facility within the next five years? If so, briefly describe what and when.

THERE ARE NO PLANS TO MAINTAIN OR UPGRADE THE PLANT AT THIS TIME - THERE ARE SEVERAL AREAS THAT NEED TO BE ADDRESSED FOR UPGRADES -



5. Attach a simple schematic drawing of the POTW. (Label as attachment B.5. Attachments should be 11 x 17" or smaller). The schematic should show all treatment processes (from B.6 below), flow direction and flow quantities in million gallons per day (MGD) or gallons per day (GPD).
6. Identify the type and number of unit processes at this facility.

Treatment	Unit Process	Number of Units
Lift stations	In collection system	
	At head of plant	
Preliminary treatment	Manually operated bar screens	
	Mechanically operated bar screens	
	Grit removal	
	Pre-aeration	
	Comminutors/grinders	
	Other (specify)	
Primary Treatment	Primary Sedimentation Tank/Clarifiers	
	Septic tanks	
	Other (specify)	
Secondary Treatment	Oxidation Ditch	
	Package Plant - Activated Sludge	1
	Package Plant - Physical/Chemical	
	Aerated Lagoon	
	Non-aerated Lagoon/Facultative Lagoon	
	Rotating Biological Contact	
	Secondary Clarifiers	
	Trickling Filter	
	Polishing Ponds	2
	Other (specify)	
Additional Treatment	Coagulation	
	Filtration	
	Storage (Lined Lagoon)	
	Storage (Unlined Lagoon)	
	Other (specify)	
Land Treatment or Application	Drainfield	
	Rapid Infiltration/Infiltration Lagoon	
	Constructed Wetland	
	Sprinkler Irrigation	
	Flood Irrigation	
	Ridge and Furrow Irrigation	
	Subsurface Irrigation	
	Other (specify)	
Disinfection	Chlorination	1
	Ultraviolet	
	Other	





## SECTION C. WASTEWATER INFORMATION

1. The average influent flow to the plant for the maximum month for at least the last 12 months: 11,128 gallons/day
  
2. The maximum daily flow applied to the land treatment/application site for the last 12 months: N/A gallons/day
  
3. Describe how the influent and effluent flow are measured?
  
4. BY FLOW METER ON DISCHARGE LINE FROM EFFLUENT PUMPS TO POLISHING PONDS - Attach flow records for at least the last 12 months. (Label as attachment C.4.)
  
5. 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.  

1300/TSS/TDS/NITRATES - 12 HOUR COMPOSITE

PH/DO/CHLORINE RESIDUAL/TOTAL COLIFORMS - GRAB SAMPLES
  
6. Provide measurement values or range of measurements for treated wastewater prior to land treatment/application for the parameters with an "X" in the left column of the table below. 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 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			
X	BOD (5 day)	2.0	11.2	5.0	12	SM 5210 B	/2 mg/l
	COD					SM 5220 D	/10 mg/l
X	Total suspended solids	4.0	12.5	7.0	12	SM 2540 D	/5 mg/l
X	Total dissolved solids	593.5	715.0	643.1	12	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	6.7	8.0		154	SM 4500-H	0.1 standard units
X	Total Residual Chlorine	1.0	3.0		200	SM4500-Cl G	50/ µg/L L
	Fecal coliform (organisms/100 mL)					SM 9221 E or 9222 D	
X	Total coliform (organisms/100 mL)	4.1	9.8	1.2	72	SM 9221 B or 9222 B	
X	Dissolved oxygen	4.2	8.0	5.8	154	SM 4500-O C/G	
X	Nitrate + nitrite-N as N	12.1	33.3	26.4	12	SM 4500-NO <sub>3</sub> E	100 µg/L
	Total kjeldahl N as N					SM 4500-N <sub>org</sub> C/E/FG	300 µg/l
	Ortho-phosphate-P as P					SM 4500-P E/F	10 µg/l
	Total-phosphorous-P as P					SM 4500-P E/P/F	10 µg/l
	Total Oil & grease					EPA 1664A	1.4/5 mg/l
	NWTPH - Dx					Ecology NWTPH Dx	250/250 µg/l
	NWTPH - Gx					Ecology NWTPH Gx	250/250 µg/l
	Calcium					EPA 200.7	10 µg/l
	Chloride					SM 4500-Cl C	0.15 µg/l
	Fluoride					SM 4500-F E	.025/0.1 mg/l
	Magnesium					EPA 200.7	10/50 µg/l
	Potassium					EPA 200.7	700/ µg/l
	Sodium					EPA 200.7	29/ µg/l
	Sulfate					SM 4500-SO <sub>4</sub> C/D	/200 µg/l
	Alkalinity mg/L as CaCO <sub>3</sub>					SM 2320 B	/5 mg/L as CaCO <sub>3</sub>





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			
	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
	Copper (total)					EPA 200.8	0.4/2 µg/l
	Iron (total)					EPA 200.7	12.5/50 µg/l
	Lead (total)					EPA 200.8	0.1/0.5 µg/l
	Manganese (total)					EPA 200.8	0.1/0.5 µg/l
	Mercury (total) pg/L					EPA 1631E	0.2/5 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

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 all 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, or 5) x 10<sup>n</sup>, 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).



7. Has the effluent been analyzed for any other parameters than those identified in question C.6, or 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 and label as Attachment C.6*). (*Note: Ecology may require additional testing.*)





## SECTION D. GROUNDWATER 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 E.3 below. Attach well logs when available (*label as Attachment D*). Copy this page as necessary for each well (*label as Attachment D*). Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # AA5 790  
(*example AAB123*)

Well ID # MN1 (*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				
Dissolved Fixed Solids	mg/L				
Total dissolved solids	mg/L				
pH	Standard units	8.02 - 8.33	7		
Conductivity	(micromhos/cm)	809 - 1040	7		
Alkalinity	mg/L as CaCO <sub>3</sub>				
Total hardness	mg/L				
Fecal coliform	organisms/100mL	1.0 - 1.0	7		
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N as N	mg/L	0.062 - 0.137	7		
Nitrate + nitrite-N, as N	mg/L	10.6 - 13.8	7		
Total kjeldahl N as N	mg/L	0.00 - 0.34	7		
Ortho-phosphate-P as P	mg/L	ND	7		
Total-phosphorus-P as P	mg/L				
Total Oil & Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	67.6 - 97.3	7		
Chloride	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l	66.4 - 73.7	7		
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	47.0 - 63.4	7		
Sulfate	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l	147 - 246	7		
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	N/	7		
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
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)		30.58 - 31.06	7		

## SECTION E. SITE ASSESSMENT

**Note:** The Department of Ecology Water Resources Section can be consulted for identifying wells within one mile of your site. The local library and local city or county planning offices may be helpful in providing the information required in this section.

1. Give the legal description of the land treatment/application site(s) by section/township/range and latitude/longitude (approximate center of the site; NAD83/WGS84 reference datum). Indicate the owner for each site. Give the acreage of each land treatment/application site(s). Attach a copy of the contract(s) authorizing use of(s) used land for treatment/application. *(Label as attachment E.1)*
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, , biosolids permits, or air emissions permits.
3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map or aerial photograph that shows the POTW and the land treatment/application site(s).  
USGS topographical maps are available from the Department of Natural Resources (360-902-1234), Metsker Maps (206-588-5222), and some local bookstores and internet sites. Show the following on this map: *(Label as attachment E.3.)*
  - 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. Ground water gradient.
4. Describe the soils on the site using information from local soil survey reports. Soils information is available from your county conservation district or from information contained in the sites hydrogeologic report..  
*(Label as attachment E.4.)*
5. Describe the local geology and hydrogeology within one mile of the site. Include any ground water quality data. The local library, the sites hydrogeologic report, or soil conservation service may have this information.  
*(Label as attachment E.5.)*
6. List the names and addresses of contractors or consultants who provided information, and cite sources of information by title and author.



## SECTION D. GROUNDWATER 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 E.3 below. Attach well logs when available (*label as Attachment D*). Copy this page as necessary for each well (*label as Attachment D*). Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # AAS 791  
(*example AAB123*)

Well ID # MW 2 (*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				
Dissolved Fixed Solids	mg/L				
Total dissolved solids	mg/L				
pH	Standard units	8.16 - 8.44	7		
Conductivity	(micromhos/cm)	328 - 420	7		
Alkalinity	mg/L as CaCO <sub>3</sub>				
Total hardness	mg/L				
Fecal coliform	organisms/100mL	1.0 - 1.0	7		
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N as N	mg/L	0.113 - 0.202	7		
Nitrate + nitrite-N, as N	mg/L	0.12 - 0.4	7		
Total kjeldahl N as N	mg/L	0.00 - 0.55	7		
Ortho-phosphate-P as P	mg/L	ND	7		
Total-phosphorus-P as P	mg/L				
Total Oil & Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	15.2 - 18.6	7		
Chloride	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	28.1 - 30.6	7		
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 checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	5.99 - 51.2	7		
Sulfate	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	25.6 - 30.8	7		
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	N	7		
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
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)		33.36 - 33.65	7		





## SECTION D. GROUNDWATER 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 E.3 below. Attach well logs when available (*label as Attachment D*). Copy this page as necessary for each well (*label as Attachment D*). Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # A175792  
(*example AAB123*)

Well ID # MW 3 (*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				
Dissolved Fixed Solids	mg/L				
Total dissolved solids	mg/L				
pH	Standard units	7.87 - 8.15	7		
Conductivity	(micromhos/cm)	948 - 1089	7		
Alkalinity	mg/L as CaCO <sub>3</sub>				
Total hardness	mg/L				
Fecal coliform	organisms/100mL	1.0 - 1.0	7		
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N as N	mg/L	0.176 - 0.227	7		
Nitrate + nitrite-N, as N	mg/L	9.4 - 16.6	7		
Total kjeldahl N as N	mg/L	0.00 - 0.53	7		
Ortho-phosphate-P as P	mg/L	ND	7		
Total-phosphorus-P as P	mg/L				
Total Oil & Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	97.9 - 118	7		
Chloride	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	75.3 - 79.4	7		
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 checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	47.1 - 54.1	7		
Sulfate	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	250 - 269	7		
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	N	7		
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
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)		21.73 - 22.48	7		





## SECTION D. GROUNDWATER 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 E.3 below. Attach well logs when available (*label as Attachment D*). Copy this page as necessary for each well (*label as Attachment D*). Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # AA5 793

Well ID # M11 4 (example MW-1)

(*example AAB123*)

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				
Dissolved Fixed Solids	mg/L				
Total dissolved solids	mg/L				
pH	Standard units	7.98 - 8.32	7		
Conductivity	(micromhos/cm)	1041 - 1165	7		
Alkalinity	mg/L as CaCO <sub>3</sub>				
Total hardness	mg/L				
Fecal coliform	organisms/100mL	1.0 - 1.0	7		
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N as N	mg/L	0.101 - 0.227	7		
Nitrate + nitrite-N, as N	mg/L	7.30 - 18.20	7		
Total kjeldahl N as N	mg/L	0.37 - 0.60	7		
Ortho-phosphate-P as P	mg/L	ND	7		
Total-phosphorus-P as P	mg/L				
Total Oil & Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	94.6 - 111.0	7		
Chloride	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	83.2 - 86.4	7		
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 checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	60.3 - 79.2	7		
Sulfate	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	251.0 - 288.0	7		
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	N	7		
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
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)		23.90 - 24.45	7		





## SECTION D. GROUNDWATER 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 E.3 below. Attach well logs when available (label as Attachment D). Copy this page as necessary for each well (label as Attachment D). Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # AAS 776  
(example AAB123)

Well ID # MW5 (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				
Dissolved Fixed Solids	mg/L				
Total dissolved solids	mg/L				
pH	Standard units	7.60 - 8.45	7		
Conductivity	(micromhos/cm)	523 - 1151	7		
Alkalinity	mg/L as CaCO <sub>3</sub>				
Total hardness	mg/L				
Fecal coliform	organisms/100mL	1.0 - 1.0	7		
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N as N	mg/L	0.086 - 0.191	7		
Nitrate + nitrite-N, as N	mg/L	1.6 - 10.3	7		
Total kjeldahl N as N	mg/L	0.00 - 0.70	7		
Ortho-phosphate-P as P	mg/L	ND	7		
Total-phosphorus-P as P	mg/L				
Total Oil & Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	86.0 - 114.0	7		
Chloride	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	52.9 - 56.7	7		
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 checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	31.7 - 86.1	7		
Sulfate	<input checked="" type="checkbox"/> mg/L <input type="checkbox"/> µg/l	215 - 236	7		
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	NI	7		
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
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)		19.92 - 22.66	7		





## SECTION F. SLUDGE/BIOSOLIDS MANAGEMENT AND DISPOSAL

1. If your wastewater treatment is by lagoon: N/A

Has the depth of the sludge been measured in the last five years?

☐ YES ☐ NO (If yes, include the measurements and a map that shows the approximate measurement sites)

Will sludge be removed from the lagoon(s) in the next five years? If so, describe the sludge, stabilization, utilization, and disposal methods. Attach extra sheets as necessary.

2. If your wastewater treatment is by methods other than lagoon:

Do you have a Sludge Management Plan? ☒ YES ☐ NO

Is the Plan approved by:

☒ Local health district?

Date approved: 03/04/1996

☐ Department of Ecology?

Date approved:

3. Does your facility have a biosolids permit issued by Ecology? If so, please provide the permit's number and expiration date.

Biosolids Permit number

Permit expiration Date

---

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

(Please check attachments that are included)

- ☒ B.5 Schematic drawing of POTW
- ☒ C.4 Flow records
- ☒ C.6 Additional effluent analysis
- ☒ D. Additional ground water data
- ☐ E.1 Copies of contracts authorizing use of land for treatment
- ☐ E.3 USGS topographic map
- ☐ E.4 Soil information
- ☐ E.5 Local geology and hydrogeology

*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.*



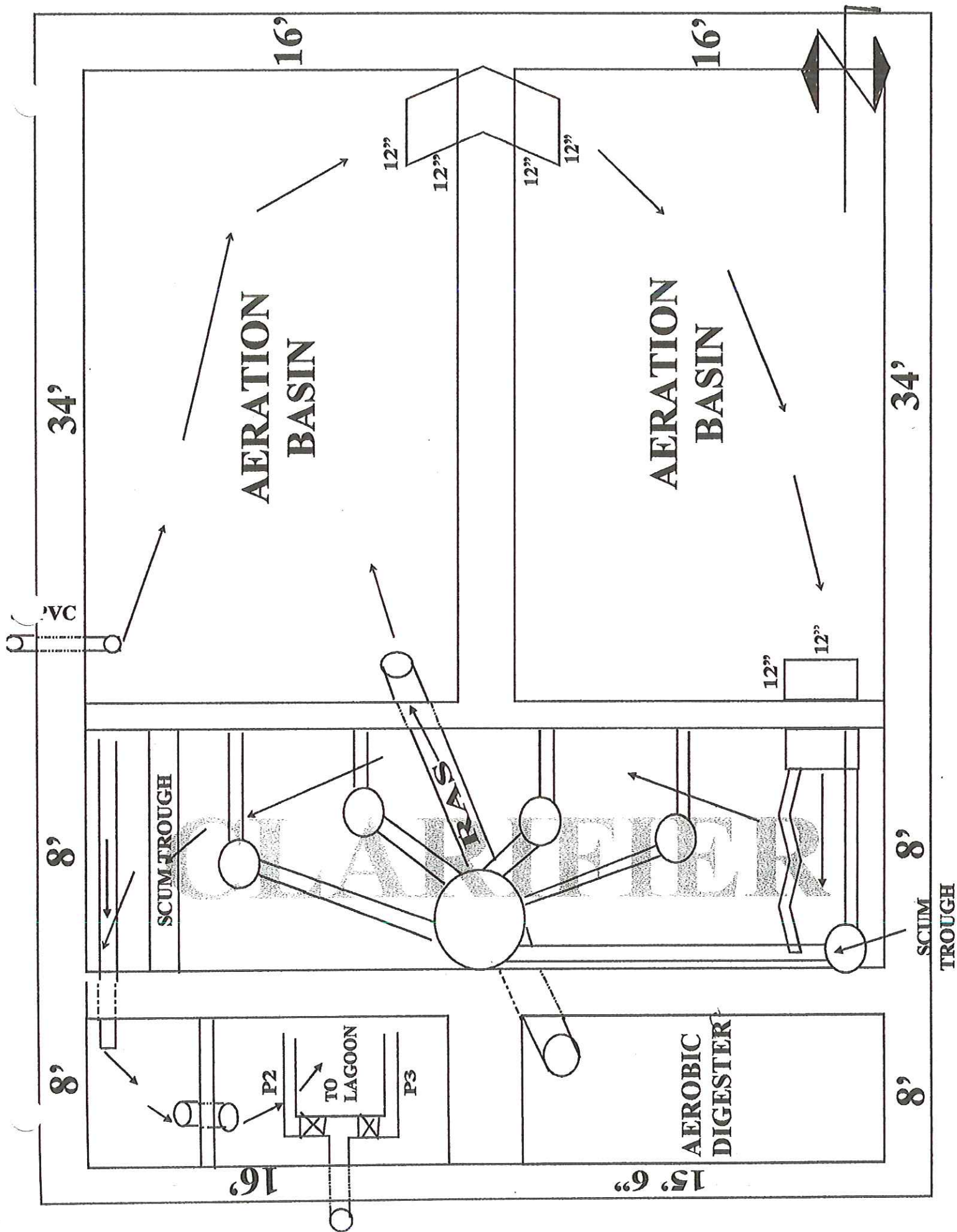
Permit No.: ST-5529

# **Schematic Drawing of**

# **POTW**









Permit No.: ST-5529

# Flow Records





**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: JULY Year: 20 11

	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	1:PM	9036	079.9	761.9			WLB
2							
3							
4	10:PM	25735	082.0	764.2			WLB
5	3:PM	10566	082.9	765.1			WLB
6	1:PM	7859	083.5	765.8	1000 GAL		WLB
7	12:PM	9352	084.4	766.7			WLB
8	3:PM	10303	085.1	767.5			WLB
9							
10							
11	12:PM	26274	087.2	769.8			WLB
12	12:PM	9369	087.9	770.6			WLB
13	10:AM	9402	088.7	771.5			WLB
14	11:AM	9604	089.5	772.3			WLB
15	11:AM	10409	090.3	773.2	900 GAL	4875 GAL	WLB
16							
17	1:PM	18188	091.7	775.7			WLB
18	12:PM	9763	092.5	776.5			WLB
19	8:PM	7309	093.1	777.1			WLB
20	10:AM	10802	093.9	778.0	900 GAL		WLB
21	12:PM	10231	094.8	778.9			WLB
22	9:AM	9203	095.5	779.7			WLB
23							
24	2:PM	19918	097.1	781.5			WLB
25	11:AM	9099	097.8	782.2	500 GAL		WLB
26	12:PM	10168	098.6	783.1			WLB
27	1:PM	11801	099.5	784.2			WLB
28	12:PM	10543	100.4	785.2			WLB
29	11:AM	10404	101.2	786.0	500 GAL		WLB
30							
31	12:PM	18253	102.7	787.7			WLB

TOTAL: 293590

Avg: 009471



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: AUGUST Year: 20 11

	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	11:AM	10244	103.5	788.6			WJB
2	12:PM	9927	104.3	789.6			WJB
3	2:PM	11503	105.2	790.4			WJB
4	12:PM	9108	105.9	791.1			WJB
5	12:PM	9003	106.6	791.9	500 GAL		WJB
6							
7							
8	2:PM	34018	109.3	794.9			WJB
9	12:PM	9366	110.0	795.7			WJB
10	9:AM	7954	110.6	796.2	500 GAL		WJB
11	12:PM	10551	111.4	797.1			WJB
12	1:PM	10122	112.2	798.0			WJB
13							
14							
15	11:AM	30994	114.7	800.7	500 GAL		WJB
16	8:AM	8198	115.4	801.5			WJB
17	10:AM	11651	116.3	802.5		4500 GAL	WJB
18	6:PM	12244	117.5	804.1			WJB
19	11AM	6524	118.1	804.7			SD
20							
21							
22	11:AM	28143	120.4	807.2	500 GAL		WJB
23	1:PM	8769	120.7	808.0			WJB
24	10:AM	8235	121.7	808.7			WJB
25	1:PM	10312	122.5	809.6			WJB
26	10:AM	9121	123.3	810.4	500 GAL		WJB
27							
28							
29	11:AM	31346	125.8	813.2			WJB
30	1PM	11492	126.7	814.2			SD
31	1PM	09611	127.4	814.9			SD

TOTAL: 308436

Avg: 9950



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: SEPTEMBER Year: 20 11

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	6:PM	11731	128.3	815.9			WLB
2	11:AM	8896	129.0	816.6	750 GAL		WLB
3							
4							
5	12:PM	30231	131.4	819.3			WLB
6	11:AM	11286	132.3	820.2			WLB
7	3:PM	10751	133.1	821.2			WLB
8	8:AM	6174	133.6	821.7	750 GAL		WLB
9	3:PM	13973	134.8	823.0			WLB
10							
11							
12	2:PM	32119	137.4	825.8			WLB
13	2:PM	9766	138.1	826.6			WLB
14	11:AM	8137	138.8	827.4		3800 GAL	WLB
15	4:PM	11801	139.8	829.0			WLB
16	11:AM	7724	140.5	829.6	1000 GAL		WLB
17	11:AM	18					
18	11:AM	18016	142.0	831.2			WLB
19	2:PM	11088	142.8	832.2			WLB
20	8:AM	5762	143.3	832.7			WLB
21	2:PM	11665	144.2	833.7			WLB
22	12:PM	8906	144.9	834.6			WLB
23	9:AM	8320	145.6	835.3	1000 GAL		WLB
24							
25							
26	11:AM	29725	148.0	837.7			WLB
27	12:PM	10405	148.8	838.7			WLB
28	11:AM	8491	149.5	839.4			WLB
29	4:PM	11161	150.3	840.3			WLB
30	10:AM	7275	151.0	840.9	1000 GAL		WLB
31							

TOTAL: 293403

AVG: 9780



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: OCTOBER Year: 20 11

Line	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1							
2	3:PM	20479	152.8	842.5			WJB
3	10:AM	8302	153.4	843.2			WJB
4	3:PM	10944	154.3	844.2			WJB
5	11:AM	7405	154.9	844.8			WJB
6	1:PM	10837	155.7	845.7			WJB
7	8:AM	7342	156.3	846.4	900 GAL		WJB
8							
9	3:AM	12889	157.4	847.5			WJB
10	11:AM	15038	158.5	848.8			WJB
11	2:PM	9991	159.3	849.6			WJB
12	3:PM	9890	160.1	850.5			WJB
13	3:PM	10747	160.9	851.4			WJB
14	8:AM	7778	161.5	852.1	900 GAL		WJB
15							
16							
17	10:AM	36091	164.4	855.2			WJB
18	8:AM	9424	165.2	856.0			WJB
19	2:PM	13726	166.2	857.2			WJB
20	1:PM	9339	167.0	858.0			WJB
21	1:PM	12638	168.0	859.0	500 GAL		WJB
22							
23							
24	3:PM	35370	170.8	862.1			WJB
25	11:AM	8777	171.5	862.8			WJB
26	12:PM	10468	172.3	863.7	500 GAL		WJB
27	1:PM	9522	173.0	864.5			WJB
28	12:PM	9746	173.8	865.4			WJB
29							
30							
31	11:AM	37741	176.7	868.6			WJB

TOTAL: 324484

AVG: 10467



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: NOVEMBER Year: 20 11

date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	12: PM	9881	177.5	869.4			WLB
2	1: PM	12863	178.5	870.5			WLB
3	12: PM	9762	179.2	871.4			WLB
4	1: PM	10798	180.1	872.3			WLB
5							
6	11: AM	25624	182.1	874.4			WLB
7	1: PM	15192	183.3	875.7			WLB
8	10: AM	8720	183.9	876.5	500 GAL		WLB
9	12: PM	10357	184.7	877.4			WLB
10	1: PM	10403	185.5	878.2			WLB
11	2: PM	10835	186.3	879.1			WLB
12							
13	11: AM	19283	187.9	880.8			WLB
14	12: PM	13522	188.9	881.9			WLB
15	8: AM	8505	189.6	882.7			WLB
16	11: AM	11030	190.4	883.6			WLB
17	12: PM	10647	191.3	884.6			WLB
18	1: PM	10275	192.1	885.4			WLB
19							
20							
21	11: AM	34958	194.8	888.5			WLB
22	12: PM	10861	195.8	889.4			WLB
23	12: PM	10311	196.6	890.3			WLB
24		THANKSGIVING !!					
25	10: AM	22039	198.3	892.2	500 GAL		WLB
26							
27							
28	10: AM	34111	201.0	895.1			WLB
29	12: PM	11856	201.8	896.0			WLB
30	1: PM	12008	202.8	897.1			WLB
31							

TOTAL 5333841

Avg: 11128



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: DECEMBER Year: 20 11

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	10:AM	8624	203.5	897.9			WLB
2	11:AM	11084	204.4	898.8	750 GAL		WLB
3							
4	12:PM	22138	206.1	900.7			WLB
5	2:PM	13127	207.2	901.8			WLB
6	12:PM	11445	208.1	902.8			WLB
7	12:PM	10021	208.9	903.7			WLB
8	10:AM	9550	209.6	904.5			WLB
9	9:AM	9441	210.4	905.3			WLB
10							
11							
12	12:PM	33975	213.0	908.3			WLB
13	5:PM	11654	213.9	909.3			WLB
14	2:PM	9778	214.7	910.1			WLB
15	3:PM	11649	215.6	911.1			WLB
16	1:PM	9347	216.4	911.9	500 GAL		WLB
17							
18							
19	10:AM	28206	218.6	914.4			WLB
20	8:AM	9466	219.3	915.2			WLB
21	1:PM	12275	220.3	916.3			WLB
22	1:PM	10220	221.1	917.2			WLB
23	11:AM	9778	221.9	917.9			WLB
24							
25							
26	3:PM	34777	224.6	920.9			WLB
27	3:PM	10242	225.4	921.8			WLB
28	12:PM	8406	226.1	922.5			WLB
29	1:PM	11115	227.0	923.5			WLB
30	12:PM	10060	227.8	924.4	750 GAL		WLB
31	12:PM	10720	228.6	925.4			

TOTAL: 327098

AVG: 10552



# CITY SEWER & WATER DISTRICT

## Daily Flow & Maintenance Recordings

Month: JANUARY Year: 20 12

		Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
2	12:PM	21440	230.3	927.2			WFB
3	12:PM	11351	231.2	928.1			WFB
4	11:PM	11133	232.1	929.0			WFB
5	1:PM	10303	232.9	929.9			WFB
6	12:PM	9457	233.6	930.7	500 GAL		WFB
7							
8							
9	3:PM	30765	236.0	933.3			WFB
10	3:PM	10258	236.8	934.2			WFB
11	1:PM	8959	237.5	935.0			WFB
12	10:AM	9136	238.2	935.7			WFB
13	11:AM	11207	239.1	936.7	750 GAL		WFB
14							
15							
16	10:AM	29186	241.4	939.2			WFB
17	8:AM	11294	242.3	940.2			WFB
18	1:PM	12223	243.2	941.2			WFB
19	10:AM	10162	244.1	942.1			WFB
20	3:PM	11643	245.9	943.1			WFB
21							WFB
22	11:AM	22087	246.7	945.0			
23	2:PM	13314	247.7	946.1			WFB
24	1:PM	10043	248.5	947.0			WFB
25	10:AM	8140	249.2	947.7	750 GAL	5000 GAL	WFB
26	2:PM	9422	250.0	949.3			WFB
27	2:PM	9184	250.7	950.1			WFB
28							
29							
30	9:AM	27975	252.9	952.5			WFB
31	8:AM	9692	253.7	953.3			WFB

TOTAL: 318384

AVG: 10271



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: FEBRUARY Year: 20 12

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	11:AM	10617	254.5	954.2			WLB
2	1:PM	11272	255.4	955.2			WLB
3	12:PM	10114	256.2	956.1			WLB
4							
5							
6	11:AM	31852	258.7	958.8			WLB
7	1:PM	10137	259.5	959.6			WLB
8	9:AM	8413	260.1	960.4			WLB
9	12:PM	11306	261.0	961.3			WLB
10	12:PM	9831	261.8	962.1	750 GAL		WLB
11							
12							
13	12:PM	29480	264.2	964.8			WLB
14	8:AM	9706	264.9	965.6			WLB
15	11:AM	11306	265.8	966.5			WLB
16	12:PM	9644	266.6	967.4			WLB
17	12:PM	9079	267.3	968.2	500 GAL		WLB
18							
19							
20	12:PM	30586	269.7	970.8			WLB
21	2:PM	12365	270.7	971.8			WLB
22	10:AM	8163	271.4	972.6			WLB
23	11:AM	11428	272.3	973.6			WLB
24	12:PM	10133	273.1	974.4			WLB
25							
26	1:PM	20337	274.7	976.2			WLB
27	12:PM	10558	275.5	977.1	500 GAL		WLB
28	12:PM	8255	276.2	977.8			WLB
29	2:PM	10751	277.0	978.7			WLB
30							
31							

TOTAL: 295333

AVG: 10184



**COMMUNITY SEWER & WATER DISTRICT**  
Daily Flow & Maintenance Recordings

Month: MARCH

Year: 2012

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	1:PM	9827	277.6	979.5			WLB
2	11:AM	8220	278.4	980.3	500 GAL		WLB
3							
4							
5	11:AM	30065	280.7	982.9			WLB
6	1:PM	10153	281.6	983.8			WLB
7	2:PM	11315	282.5	984.7			WLB
8	5:PM	10737	283.3	985.6			WLB
9	11:AM	7064	283.8	986.2	750 GAL		WLB
10							
11							
12	11:AM	32273	286.3	989.1		4000 GAL	WLB
13	11:AM	10290	287.5	990.4			WLB
14	8:AM	8758	288.2	991.1			WLB
15	1:PM	12053	293.3	991.8			WLB
16	4:PM	11740	294.3	992.8	750 GAL		WLB
17							
18							
19	11:AM	29565	296.6	995.3	500 GAL		WLB
20	8:AM	8056	297.3	996.1			WLB
21	3:PM	14229	298.3	997.3			WLB
22	11:AM	10275	299.1	998.2			WLB
23	2:PM	12998	300.1	999.3			WLB
24							
25	2:PM	21016	301.7	001.1	750 GAL		WLB
26							
27							
28							
29							WLB
30	10:AM	50681	305.7	005.5	500 GAL		WLB
31	12:PM	11063	306.5	006.4			WLB

TOTAL: 320378

AVG: 10335



**COMMUNITY SEWER & WATER DISTRICT**  
Daily Flow & Maintenance Recordings

Month: APRIL

Year: 2012

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1							
2	9:AM	20689	308.3	008.2			WJB
3	1:PM	13379	309.3	009.3			WJB
4	4:PM	11217	310.2	010.3			WJB
5	1:PM	9368	311.0	011.1			WJB
6	11:AM	8518	311.6	011.8	500 GAL		WJB
7	11:AM	<del>3</del>					
8							
9	11:AM	31072	314.1	014.5	500 GAL		WJB
10	4:PM	9731	314.8	015.4			WJB
11	4:PM	9902	315.6	016.2			WJB
12	4:PM	9355	316.4	017.0			WJB
13	11:AM	8026	317.0	017.6	500 GAL		WJB
14							
15							
16	11:AM	26672	319.1	019.9	500 GAL		WJB
17	8:AM	7714	319.7	020.6			WJB
18	1:PM	12425	320.7	021.6			WJB
19	12:PM	10362	321.5	022.5			WJB
20	12:PM	10441	322.3	023.4	750 GAL		WJB
21							
22			324.6				
23	10:AM	28996	28996	026.0	500 GAL		WJB
24	12:PM	10152	325.5	026.9			WJB
25	10:AM	9213	326.2	027.7			WJB
26	1:PM	9310	327.0	028.5			WJB
27	2:PM	11753	327.9	029.5			WJB
28							WJB
29							
30	11:AM	25727	330.0	031.7			WJB
31							

TOTAL: 294022

Avg: 9801



**COMMUNITY SEWER & WATER DISTRICT**  
Daily Flow & Maintenance Recordings

Month: MAY

Year: 20 12

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	12:PM	7795	330.6	032.4			WLB
2	1:PM	10050	331.4	033.3			WLB
3	12:PM	10010	332.2	034.2			WLB
4	2:PM	10000	333.0	035.0	500 GAL		WLB
5							
6							
7	8:AM	29382	335.4	037.5			WLB
8	4:PM	10986	335.7	038.0			WLB
9	4:PM	8762	336.4	038.7			WLB
10	2:PM	8803	337.2	039.5			WLB
11	11:AM	8380	337.8	040.3	750 GAL	5000 GAL	WLB
12							
13							
14	10:AM	31244	340.2	043.1			WLB
15	8:AM	9753	341.0	043.9			WLB
16	3:PM	12337	342.0	045.0			WLB
17	2:PM	8950	342.7	045.8			WLB
18	11:AM	8114	343.4	046.5	750 GAL		WLB
19							
20							
21	11:AM	30653	345.6	049.0			WLB
22	12:AM	9426	346.4	049.9			WLB
23	11:AM	9163	347.1	050.6			WLB
24	12:PM	9342	347.9	051.4			WLB
25	12:PM	9234	348.6	052.2	750 GAL		WLB
26							
27							
28	10:AM	29902	350.9	054.7			WLB
29	12:PM	10166	351.8	055.7			WLB
30	10:AM	9353	352.5	056.5			WLB
31	12:PM	10533	353.4	057.5			WLB

TOTAL: 301338

AVG: 9753



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: JUNE

Year: 20 12

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	12:PM	9630	354.2	058.3	750 GAL		LWB
2							
3							
4	3:PM	31704	356.7	061.1			LWB
5	9:AM	7628	357.3	061.7			LWB
6	4:PM	10991	358.2	062.7			LWB
7	11:AM	6301	358.7	063.2			LWB
8	3:PM	10473	359.5	064.1	500 GAL		LWB
9							
10							
11	3:PM	29021	361.8	066.6			LWB
12	12:PM	9194	362.5	067.4			LWB
13	2:PM	10263	363.4	068.3			LWB
14	3:PM	10926	364.3	069.3			LWB
15	11:AM	7239	364.8	070.0	750 GAL	4539 GAL	LWB
16							
17							
18	11:AM	26726	367.1	072.4			LWB
19	8:AM	7147	367.7	073.1			LWB
20	2:PM	11590	368.6	074.1			LWB
21	1:PM	8098	369.2	074.8			LWB
22	12:PM	8806	369.9	075.5	750 GAL		LWB
23							
24	12:PM	17581	371.4	077.1			LWB
25	12:PM	9075	372.1	077.9			LWB
26	2:PM	11298	373.0	078.9			LWB
27	10:AM	6671	373.6	079.5			LWB
28	12:PM	10143	374.3	080.2			LWB
29	2:PM	9603	375.0	081.0			LWB
30	12:PM	87164	375.8	081.8			
31							

TOTAL: 278894

AVG: 9294



# Daily Flow & Maintenance Recordings

Month: JULY

Year: 20 12

	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1							
2	12:PM	16804	377.1	083.3		3600 Gal	WLB
3	12:PM	9323	378.0	084.2			WLB
4	11:PM	8607	378.8	085.1			WLB
5	8:AM	8010	379.5	085.8			WLB
6	11:AM	11997	380.5	086.9	750 GAL		WLB
7							
8							
9	3:PM	26731	382.7	089.3			WLB
10	10:AM	6918	383.3	089.9			WLB
11	1:PM	10449	384.1	090.8			WLB
12	12:PM	9137	385.0	091.6			WLB
13	12:PM	9409	385.8	092.5	750 GAL		WLB
14							
15	3:PM	22151	387.5	094.5			WLB
16	2:PM	8311	388.2	095.2			WLB
17	8:AM	6489	388.7	095.8			WLB
18	12:PM	10468	389.5	096.7			WLB
19	1:PM	10010	390.5	097.7			WLB
20	1:PM	8598	391.2	098.4	1000 GAL		WLB
21							
22							
23	1:PM	26794	393.3	100.8			WLB
24	1:PM	8342	394.0	101.6			WLB
25	1:PM	9144	394.7	102.4			WLB
26	12:PM	9443	395.5	103.2			WLB
27	8:AM	7535	396.2	103.9	750 GAL		WLB
28							
29							
30	12:PM	27808	398.4	106.3			WLB
31	12:PM	9138	399.2	107.1			WLB

TOTAL: 957502

AVG: 8309



**COMMUNITY SEWER & WATER DISTRICT**  
**Daily Flow & Maintenance Recordings**

Month: AUGUST

Year: 2012

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1	11:AM	8310	399.9	107.9			LWB
2	12:PM	8360	400.4	108.7			LWB
3	11:AM	7841	401.1	109.4	750 GAL		LWB
4							
5							
6	12:PM	22884	403.0	111.4			LWB
7	10:AM	8037	403.7	112.1			LWB
8	3:PM	10128	404.6	113.0			LWB
9	9:AM	5665	405.0	113.5			LWB
10	1:PM	10204	405.8	114.4	750 GAL		LWB
11							
12							
13	11:AM	22489	407.7	116.3			LWB
14	8:AM	6847	408.3	117.0			LWB
15	10:AM	8699	409.0	117.7			LWB
16	4:PM	10870	409.9	118.7			LWB
17	4:PM	7793	410.5	119.4	500 GAL		LWB
18							
19							
20	11:AM	26510	412.7	121.7	500 GAL		LWB
21	10:AM	7297	413.3	122.4			LWB
22	12:PM	10041	414.1	123.3			LWB
23	12:PM	8298	414.8	124.0			LWB
24	12:PM	9033	415.5	124.8	500 GAL		LWB
25							
26							
27	11:AM	28510	417.8	127.3	500 GAL		LWB
28	12:PM	9743	418.6	128.1			LWB
29	9:AM	8604	419.3	128.9			LWB
30	8:AM	9376	420.1	129.7			LWB
31	1:PM	11300	421.0	130.7	500 GAL		LWB

TOTAL: 966839

AVG: 8608



## Daily Flow &amp; Maintenance Recordings

Month: SEPTEMBER Year: 20 12

Date	Time	Total Gallons	Pump #1 Meter	Pump #2 Meter	Waste	Return	Operator
1							
2							
3	11:AM	25125	423.0	132.9	500 GAL		WLB
4	12:PM	12864	424.0	134.0			WLB
5	11:AM	10188	424.9	134.9			WLB
6	2:PM	11477	425.8	135.9			WLB
7	12:PM	8437	426.5	136.6	500 GAL		WLB
8							
9							
10	12:PM	31417	429.0	139.4			WLB
11	12:PM	9708	429.8	140.3			WLB
12	3:PM	10162	430.6	141.1			WLB
13	9:AM	7631	431.2	141.8		4700 GAL	WLB
14	12:PM	9245	432.1	143.2	750 GAL		WLB
15							
16	1:PM	19183	433.6	144.9			WLB
17	12:PM	9916	434.4	145.8			WLB
18	8:AM	8048	435.1	146.5			WLB
19	4:PM	12399	436.2	147.6			WLB
20	10:AM	8346	436.8	148.3			WLB
21	12:PM	10830	437.7	149.3	750 GAL		WLB
22							
23	12:PM	16921	439.0	150.8			WLB
24	11:AM	10159	439.8	151.6	750 GAL		WLB
25	8:AM	6757	440.4	152.2	500 GAL		OK
26	8:AM	8697	441.1	153.0			OK
27	3:PM	13035	442.1	154.1			OK
28	8:AM	5771	442.6	154.6			OK
29							OK
30	8:AM	21419	444.3	156.5			OK
31							

TOTAL: 287735

Avg: 9591





Permit No.: ST-5529

# **Additional Effluent**

## **Analysis**



**COMMUNITY SEWER & WATER DISTRICT**  
**Influent/Effluent & Maintenance Recordings**

Month: OCTOBER

Year: 20 11

Date	Influent			Effluent				Roto-Rooter	Air Pump Maintenance
	PH	DO	TEMP	PH	DO	TEMP	CL2		
1									
2									
3	7.1	3.2	21°	7.0	5.2	17°	2.0		
4									
5	7.2	3.6	20°	7.2	5.4	16°	2.0		
6									
7	7.0	3.6	20°	7.2	6.0	17°	2.0	3 LOADS OIL 2 LOADS TANK	
8									
9									
10	7.2	4.0	19°	7.3	5.6	15°	2.0		
11									
12	7.0	3.8	19°	6.8	5.8	15°	2.0		
13									
14	7.0	3.2	17°	7.2	5.2	14°	2.0		
15									
16									
17	7.2	4.0	17°	7.1	5.0	14°	2.0		
18									
19	7.4	4.2	17°	7.3	5.6	13°	2.0		
20									
21	7.3	5.0	17°	7.2	5.2	13°	2.0		
22									
23									
24	7.6	4.0	17°	7.0	5.4	14°	2.0		
25									
26	7.6	4.0	16°	7.0	5.6	14°	2.0		BELTS OK LOF.
27									
28	7.7	4.2	16°	7.0	6.0	12°	2.0		
29									
30									
31	7.6	4.4	16°	7.1	5.8	11°	2.0		





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BENTON FRANKLIN HEALTH DISTRICT

7102 W. Okanogan Place • Kennewick, WA 99336 • Phone: (509) 460-4200

COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	OCTOBER 2011									
	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD	TSS	TSS	VSS	BOD	TSS	TDS	NO3	TOTAL	DATE
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19	208.4	168.0	1,610		< 2.0	5.5	609.0	21.6		19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor *D. E. Miller*

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NOVEMBER

Year: 20 11

[illegible]





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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	NOVEMBER 2011									
	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	DATE
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16	304.8	312.0	710.0		9.1	9.5	593.5	12.1		16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

**COMMENTS:**

Lab Supervisor *D. D. E. Mill*



# COMMUNITY SEWER & WATER DISTRICT

## Influent/Effluent & Maintenance Recordings

Month: DECEMBER

Year: 20 11

[illegible]



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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	DECEMBER 2011									
	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD	TSS	TSS	VSS	BOD	TSS	TDS	NO3	TOTAL	DATE
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21	204.2	140.0	2,840		7.1	7.0	638.5	33.3		21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor

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# ALTH

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STONER FRANKLIN HEALTH DISTRICT

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## COMMUNITY SEWER & WATER DISTRICT INC.

JANUARY 2012										
MONTH	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	DATE
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18	252.1	400.0	3,050		5.6	4.0	614.5	29.5		18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor *DDE mill*



Year: 20 12

[illegible]





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BENTON-FRANKLIN HEALTH DISTRICT

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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	FEBRUARY 2012									
	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	DATE
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15	294.3	246.7	2,890		11.2	12.0	628.0	25.5		15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor *DDE mll*



## COMMUNITY SEWER & WATER DISTRICT

### Influent/Effluent & Maintenance Recordings

Month: MARCH

Year: 20 12

[illegible]



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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH		MARCH 2012								
DATE	INFLUENT		AERATION BASIN		EFFLUENT					DATE
	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21	175.4	64.0	2,940		4.0	6.0	621.0	26.4		21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor

*D. E. Miller*



Year: 20 12

[illegible]



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BENTON-FRANKLIN HEALTH DISTRICT

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## COMMUNITY SEWER & WATER DISTRICT INC.

APRIL 2012										
MONTH	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	DATE
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18	264.1	164.0	3,320		9.5	12.5	645.0	26.1		18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

**COMMENTS:**

Lab Supervisor *D. D. E. Miller*

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## COMMUNITY SEWER & WATER DISTRICT

### Influent/Effluent & Maintenance Recordings

Month: MAY

Year: 20 12

[illegible]



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BENTON-FRANKLIN HEALTH DISTRICT

7102 W. Okanogan Place • Kennewick, WA 99336 • Phone: (509) 460-4200

## COMMUNITY SEWER & WATER DISTRICT INC.

MONTH

MAY 2012

DATE	INFLUENT		AERATION BASIN		EFFLUENT					DATE
	BOD	TSS	TSS	VSS	BOD	TSS	TDS	NO3	TOTAL	
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16	156.3	73.3	3,120		6.6	6.5	659.5	27.1		16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor

*Dee E. Mill*

ENVIRONMENTAL HEALTH

COMMUNITY HEALTH CENTERS

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Phone: (509) 460-4200



# COMMUNITY SEWER & WATER DISTRICT

## Influent/Effluent & Maintenance Recordings

Month: JUNE

Year: 2012

[illegible]



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## COMMUNITY SEWER & WATER DISTRICT INC.

MONTH

JUNE 2012

DATE	INFLUENT		AERATION BASIN		EFFLUENT					DATE
	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20	195.8	168.0	3,080		4.9	7.0	715.0	31.7		20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor

*D. E. Miller*

ENVIRONMENTAL HEALTH

COMMUNITY HEALTH CENTERS

□ 7102 W. Okanogan Place  
Kennewick, WA 99336  
Phone: (509) 460-4200

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Phone: (509) 786-1633

□ 7102 W. Okanogan Place  
Kennewick, WA 99336  
Phone: (509) 460-4200



### **Inspection, Repair & Maintenance Recordings**

JULY

Year: 20 12

[illegible]





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BENTON-FRANKLIN HEALTH DISTRICT

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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	JULY 2012									
	INFLUENT		AERATION BASIN		EFFLUENT					
DATE	BOD	TSS	TSS	VSS	BOD	TSS	TDS	NO3	TOTAL	DATE
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18	177.8	132.0	2,460		< 2.0	4.5	685.0	28.0		18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

**COMMENTS:**

Lab Supervisor *12 D E. Mill*

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**COMMUNITY SEWER & WATER DISTRICT**  
Influent/Effluent & Maintenance Recordings

Month AUGUST

Year: 20 12

Date	Influent			Effluent				Roto-Rooter	Air Pump Maintenance
	PH	DO	TEMP	PH	DO	TEMP	CL2		
1	8.3	3.6	24°	7.3	4.6	23°	2.0		
2									
3	8.1	3.0	25°	7.2	4.4	24°	2.0		
4									
5									
6	7.9	3.2	26°	7.4	4.6	27°	2.0		
7									
8	8.3	3.4	26°	7.4	4.4	25°	2.0		
9									
10	8.0	3.0	26°	7.3	4.4	24°	2.0		
11									
12									
13	8.0	2.8	25°	7.3	4.4	24°	2.0		
14									
15	7.9	3.0	25°	7.2	4.2	24°	2.0		
16									
17	8.0	2.8	25°	7.3	4.4	25°	2.0		
18									
19									
20	7.8	3.6	24°	7.2	4.2	24°	2.0		BELTS OK
21									LOF
22	7.9	3.0	24°	7.2	4.4	23°	2.0		
23									
24	7.8	3.0	24°	7.3	4.8	22°	2.0		
25									
26	<del>7.9</del>	<del>3.4</del>	<del>23°</del>	<del>7</del>					
27	7.9	3.4	23°	7.2	4.6	22°	2.0		
28									
29	7.8	3.4	22°	7.3	4.6	22°	2.0		
30									
31	7.8	3.0	23°	7.1	5.0	24°	2.0		





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COMMUNITY SEWER & WATER DISTRICT INC.										
MONTH	AUGUST 2012									
DATE	INFLUENT		AERATION BASIN		EFFLUENT					DATE
	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15	157.5	372.0	2,220		< 2.0	4.0	676.5	29.8		15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

**COMMENTS:**

Lab Supervisor *[Signature]*

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SEPTEMBER

Year: 20 12

Influent			Effluent				Roto-Rooter	Air Pump Maintenance
Date	PH	DO	TEMP	PH	DO	TEMP	CL2	
1								
2								
3	LABOR DAY						2.0	
4								
5	7.0	4.0	22°	7.3	5.2	21°	2.0	
6								
7	6.9	4.6	23°	7.3	5.0	22°	2.0	
8								
9								
10	7.5	3.4	21°	7.2	5.0	21°	2.0	
11								
12	7.6	4.0	22°	7.1	4.8	20°	2.0	
13								
14	7.5	3.8	20°	7.1	5.2	18°	2.0	
15								
16								
17	8.0	4.0	20°	7.5	4.8	19°	2.0	
18								
19	8.3	4.2	20°	7.6	4.6	19°	2.0	
20								
21	8.1	4.6	21°	7.3	5.0	20°	2.0	
22								
23								
24	7.0	3.8	19°	7.0	4.8	19°	2.0	
25			<del>21°</del>					
26	8.2	3.0	21°	7.8	4.6	19°	2.0	
27	<del>8.3</del>	<del>2.6</del>	<del>20°</del>	<del>7.8</del>	<del>4.4</del>	<del>19°</del>	<del>2.0</del>	
28	8.3	2.6	20°	7.8	4.4	19°	2.0	
29								
30								
31								



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BENTON-FRANKLIN HEALTH DISTRICT

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## COMMUNITY SEWER & WATER DISTRICT INC.

MONTH

SEPTEMBER 2012

DATE	INFLUENT		AERATION BASIN		EFFLUENT					DATE
	BOD mg/l	TSS mg/l	TSS mg/l	VSS mg/l	BOD mg/l	TSS mg/l	TDS mg/l	NO3 mg/l	TOTAL COLIFORM	
1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19	225.7	200.0	2,050		< 2.0	6.0	632.0	26.0		19
20										20
21										21
22										22
23										23
24										24
25										25
26										26
27										27
28										28
29										29
30										30
31										31

COMMENTS:

Lab Supervisor *D. E. Mill*

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Pictures:

- (1) This polishing pond has been in use from 1993 until present.  
All vegetation had been removed annually, even trees, until 2010.  
As we sampled this pond monthly for nitrates we noticed that as this the vegetation increased the nitrate levels. After talking with Jim Yates in August 2011 we decided to let the vegetation grow without any maintenance along the interior profile of the pond. Thus the nitrate levels in the pond have been below 5.0 mg/l for quite sometime.
- (2) Lagoon Sample Port – This frost free faucet was originally installed in the summer of 2003. It is installed on a 1" line which runs from the 8" pressurized line inside the lot across the 4' chain link fence in the background. The green valve box visible inside the lot houses a butterfly valve on the 4" line which runs from the 8" line into the polishing pond in picture #1. The installation of this valve was necessary to throttle the flow from the plant thru the 4" line so that we could back water into the line and out of the frost free faucet. We are only able to sample from this faucet when the effluent pumps are running in the WW plant.  
This faucet was installed to give more chlorine contact time in the 8" pressurized line. And it works. We are able to maintain a constant residual at this point and perform any cleaning, repairs on the chlorine system in the plant and not lose our residual going into the pond. This sample point has been in use since October 2008. Two (2) samples at least three (3) times a month are taken and we feel that not only have we been able to maintain a good residual, we are doing it in a much more economical manner.
- (3) The last four pictures are different views of the inside and outside of the plant.  
All six (6) of these pictures were taken 10/03/12 -













