


EPA Identification Number 110000569484		NPDES Permit Number WA0024074		Facility Name City of Mount Vernon		Form Approved 03/05/19 OMB No. 2040-0004		
Form 2A NPDES				U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS				
SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))								
Facility Information	1.1	Facility name City of Mount Vernon Wastewater Treatment Plant						
		Mailing address (street or P.O. box) 1401 Britt Road						
		City or town Mount Vernon			State WA		ZIP code 98273	
		Contact name (first and last) Gary Duranceau		Title Wastewater Division Manager		Phone number (360) 336-6219		Email address garyd@mountvernonwa.gov
		Location address (street, route number, or other specific identifier) <input checked="" type="checkbox"/> Same as mailing address						
		City or town			State		ZIP code	
	Applicant Information	1.2	Is this application for a facility that has yet to commence discharge? <input type="checkbox"/> Yes → See instructions on data submission requirements for new dischargers. <input checked="" type="checkbox"/> No					
1.3			Is applicant different from entity listed under Item 1.1 above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.4.					
			Applicant name					
			Applicant address (street or P.O. box)					
			City or town			State		ZIP code
Contact name (first and last)		Title		Phone number		Email address		
1.4		Is the applicant the facility's owner, operator, or both? (Check only one response.) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both						
	1.5	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) <input checked="" type="checkbox"/> Facility <input type="checkbox"/> Applicant <input type="checkbox"/> Facility and applicant (they are one and the same)						
Existing Environmental Permits		1.6	Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)					
	Existing Environmental Permits							
	<input checked="" type="checkbox"/> NPDES (discharges to surface water) WA0024074		<input type="checkbox"/> RCRA (hazardous waste)		<input type="checkbox"/> UIC (underground injection control)			
	<input type="checkbox"/> PSD (air emissions)		<input type="checkbox"/> Nonattainment program (CAA)		<input type="checkbox"/> NESHAPs (CAA)			
	<input type="checkbox"/> Ocean dumping (MPRSA)		<input type="checkbox"/> Dredge or fill (CWA Section 404)		<input checked="" type="checkbox"/> Other (specify) General Biosolis Permit			

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Collection System and Population Served	1.7	Provide the collection system information requested below for the treatment works.					
		Municipality Served	Population Served	Collection System Type (indicate percentage)		Ownership Status	
		City of Mount Vernon	36,700	85	% separate sanitary sewer	<input checked="" type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain
				15	% combined storm and sanitary sewer	<input checked="" type="checkbox"/> Own	<input checked="" type="checkbox"/> Maintain
				<input type="checkbox"/>	Unknown	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
				_____	% separate sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
				_____	% combined storm and sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
				<input type="checkbox"/>	Unknown	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
				_____	% separate sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
				_____	% combined storm and sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain
<input type="checkbox"/>	Unknown			<input type="checkbox"/> Own	<input type="checkbox"/> Maintain		
		_____	% separate sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain		
		_____	% combined storm and sanitary sewer	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain		
		<input type="checkbox"/>	Unknown	<input type="checkbox"/> Own	<input type="checkbox"/> Maintain		
Total Population Served	36,700						
		Separate Sanitary Sewer System		Combined Storm and Sanitary Sewer			
Total percentage of each type of sewer line (in miles)		85 %		15 %			

Indian Country	1.8	Is the treatment works located in Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	1.9	Does the facility discharge to a receiving water that flows through Indian Country? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Design and Actual Flow Rates	1.10	Provide design and actual flow rates in the designated spaces.			Design Flow Rate
					15.0 mgd
		Annual Average Flow Rates (Actual)			
		Two Years Ago	Last Year	This Year	
		3.25 mgd	3.43 mgd	4.02 mgd	
		Maximum Daily Flow Rates (Actual)			
		Two Years Ago	Last Year	This Year	
		18.77 mgd	19.87 mgd	12.16 mgd	

Discharge Points by Type	1.11	Provide the total number of effluent discharge points to waters of the United States by type.				
		Total Number of Effluent Discharge Points by Type				
		Treated Effluent	Untreated Effluent	Combined Sewer Overflows	Bypasses	Constructed Emergency Overflows
		1	0	2	0	0

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Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States																																			
1.12	Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.14.																																		
1.13	Provide the location of each surface impoundment and associated discharge information in the table below. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr style="background-color: #f0f0f0;"> <th colspan="4">Surface Impoundment Location and Discharge Data</th> </tr> <tr style="background-color: #f0f0f0;"> <th style="width: 40%;">Location</th> <th style="width: 20%;">Average Daily Volume Discharged to Surface Impoundment</th> <th style="width: 20%;"></th> <th style="width: 20%;">Continuous or Intermittent (check one)</th> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Continuous</td> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Intermittent</td> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Continuous</td> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Intermittent</td> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Continuous</td> </tr> <tr> <td></td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/></td> <td>Intermittent</td> </tr> </table>			Surface Impoundment Location and Discharge Data				Location	Average Daily Volume Discharged to Surface Impoundment		Continuous or Intermittent (check one)		gpd	<input type="checkbox"/>	Continuous		gpd	<input type="checkbox"/>	Intermittent		gpd	<input type="checkbox"/>	Continuous		gpd	<input type="checkbox"/>	Intermittent		gpd	<input type="checkbox"/>	Continuous		gpd	<input type="checkbox"/>	Intermittent
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	gpd	<input type="checkbox"/>	Continuous																																
	gpd	<input type="checkbox"/>	Intermittent																																
1.14	Is wastewater applied to land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.16.																																		
1.15	Provide the land application site and discharge data requested below. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr style="background-color: #f0f0f0;"> <th colspan="4">Land Application Site and Discharge Data</th> </tr> <tr style="background-color: #f0f0f0;"> <th style="width: 25%;">Location</th> <th style="width: 15%;">Size</th> <th style="width: 25%;">Average Daily Volume Applied</th> <th style="width: 35%;">Continuous or Intermittent (check one)</th> </tr> <tr> <td></td> <td style="text-align: right;">acres</td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/> Continuous</td> </tr> <tr> <td></td> <td style="text-align: right;">acres</td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/> Intermittent</td> </tr> <tr> <td></td> <td style="text-align: right;">acres</td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/> Continuous</td> </tr> <tr> <td></td> <td style="text-align: right;">acres</td> <td style="text-align: right;">gpd</td> <td><input type="checkbox"/> Intermittent</td> </tr> </table>			Land Application Site and Discharge Data				Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)		acres	gpd	<input type="checkbox"/> Continuous		acres	gpd	<input type="checkbox"/> Intermittent		acres	gpd	<input type="checkbox"/> Continuous		acres	gpd	<input type="checkbox"/> Intermittent								
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	acres	gpd	<input type="checkbox"/> Continuous																																
	acres	gpd	<input type="checkbox"/> Intermittent																																
1.16	Is effluent transported to another facility for treatment prior to discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 1.21.																																		
1.17	Describe the means by which the effluent is transported (e.g., tank truck, pipe).																																		
1.18	Is the effluent transported by a party other than the applicant? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 1.20.																																		
1.19	Provide information on the transporter below. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr style="background-color: #f0f0f0;"> <th colspan="3">Transporter Data</th> </tr> <tr> <td style="width: 50%;">Entity name</td> <td colspan="2">Mailing address (street or P.O. box)</td> </tr> <tr> <td>City or town</td> <td>State</td> <td>ZIP code</td> </tr> <tr> <td>Contact name (first and last)</td> <td colspan="2">Title</td> </tr> <tr> <td>Phone number</td> <td colspan="2">Email address</td> </tr> </table>			Transporter Data			Entity name	Mailing address (street or P.O. box)		City or town	State	ZIP code	Contact name (first and last)	Title		Phone number	Email address																		
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SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

Design Flow	Outfalls to Waters of the United States						
	2.1	Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 3.					
Inflow and Infiltration	2.2	Provide the treatment works' current average daily volume of inflow and infiltration.				Average Daily Volume of Inflow and Infiltration 850,000 gpd	
	Indicate the steps the facility is taking to minimize inflow and infiltration. The City of Mount Vernon has budgeted up to \$1,000,000 per year to slip line or replace aging sewer lines that have potential for infiltration.						
Topographic Map	2.3	Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Flow Diagram	2.4	Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.) <input type="checkbox"/> Yes <input type="checkbox"/> No					
Scheduled Improvements and Schedules of Implementation	2.5	Are improvements to the facility scheduled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.					
	Briefly list and describe the scheduled improvements.						
	1.						
	2.						
	3.						
	4.						
	2.6	Provide scheduled or actual dates of completion for improvements.					
	Scheduled or Actual Dates of Completion for Improvements						
		Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
		1.					
	2.						
	3.						
	4.						
2.7	Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None required or applicable Explanation:						

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SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

Description of Outfalls	3.1	Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)		
		Outfall Number <u>004</u>	Outfall Number _____	Outfall Number _____
	State	Washington		
	County	Skagit		
	City or town	Mount Vernon		
	Distance from shore	80 ft.	ft.	ft.
	Depth below surface	13 ft.	ft.	ft.
	Average daily flow rate	3.43 mgd	mgd	mgd
	Latitude	48° 24' 50" N	° ' " N	° ' "
	Longitude	122° 20' 43" W	° ' " W	° ' "
Seasonal or Periodic Discharge Data	3.2	Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.4.		
	3.3	If so, provide the following information for each applicable outfall.		
		Outfall Number _____	Outfall Number _____	Outfall Number _____
	Number of times per year discharge occurs			
	Average duration of each discharge (specify units)			
	Average flow of each discharge	mgd	mgd	mgd
	Months in which discharge occurs			
Diffuser Type	3.4	Are any of the outfalls listed under Item 3.1 equipped with a diffuser? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.6.		
	3.5	Briefly describe the diffuser type at each applicable outfall.		
		Outfall Number <u>004</u>	Outfall Number _____	Outfall Number _____
		36" TideFlex valve		
Waters of the U.S.	3.6	Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6.		

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Receiving Water Description	3.7	Provide the receiving water and related information (if known) for each outfall.					
			Outfall Number <u>004</u>	Outfall Number _____	Outfall Number _____		
	Receiving water name	Skagit River					
	Name of watershed, river, or stream system	Skagit					
	U.S. Soil Conservation Service 14-digit watershed code	17110007-050					
	Name of state management/river basin	Lower Skagit River					
	U.S. Geological Survey 8-digit hydrologic cataloging unit code	12200500					
	Critical low flow (acute)	5030	cfs		cfs		cfs
	Critical low flow (chronic)	5030	cfs		cfs		cfs
	Total hardness at critical low flow	25	mg/L of CaCO ₃		mg/L of CaCO ₃		mg/L of CaCO ₃
Treatment Description	3.8	Provide the following information describing the treatment provided for discharges from each outfall.					
			Outfall Number <u>004</u>	Outfall Number _____	Outfall Number _____		
	Highest Level of Treatment (check all that apply per outfall)	<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input checked="" type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Primary <input type="checkbox"/> Equivalent to secondary <input type="checkbox"/> Secondary <input type="checkbox"/> Advanced <input type="checkbox"/> Other (specify) _____			
	Design Removal Rates by Outfall						
	BOD ₅ or CBOD ₅	85	%		%	%	
	TSS	85	%		%	%	
	Phosphorus	<input checked="" type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%
	Nitrogen	<input checked="" type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%
	Other (specify) _____	<input checked="" type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%	<input type="checkbox"/> Not applicable	%

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Treatment Description Continued	3.9	Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.					
			Outfall Number <u>004</u>	Outfall Number _____	Outfall Number _____		
		Disinfection type	UV Disinfection				
		Seasons used					
		Dechlorination used?	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Not applicable <input type="checkbox"/> Yes <input type="checkbox"/> No		

Effluent Testing Data	3.10	Have you completed monitoring for all Table A parameters and attached the results to the application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	3.11	Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.13.						
	3.12	Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.						
			Outfall Number <u>004</u>		Outfall Number _____		Outfall Number _____	
			Acute	Chronic	Acute	Chronic	Acute	Chronic
		Number of tests of discharge water	2	2				
		Number of tests of receiving water	0	0				
	3.13	Does the treatment works have a design flow greater than or equal to 0.1 mgd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.16.						
	3.14	Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? <input type="checkbox"/> Yes → Complete Table B, including chlorine. <input checked="" type="checkbox"/> No → Complete Table B, omitting chlorine.						
	3.15	Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
3.16	Does one or more of the following conditions apply? <ul style="list-style-type: none"> The facility has a design flow greater than or equal to 1 mgd. The POTW has an approved pretreatment program or is required to develop such a program. The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E). <input checked="" type="checkbox"/> Yes → Complete Tables C, D, and E as applicable. <input type="checkbox"/> No → SKIP to Section 4.							
3.17	Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
3.18	Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No additional sampling required by NPDES permitting authority.							

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Effluent Testing Data Continued	3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → Complete tests and Table E and SKIP to Item 3.26.				
	3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → Provide results in Table E and SKIP to Item 3.26.				
	3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 50%;">Date(s) Submitted (MM/DD/YYYY)</th> <th style="width: 50%;">Summary of Results</th> </tr> <tr> <td style="text-align: center; height: 40px;">05/07/2020</td> <td style="text-align: center;">PASS</td> </tr> </table>	Date(s) Submitted (MM/DD/YYYY)	Summary of Results	05/07/2020	PASS
	Date(s) Submitted (MM/DD/YYYY)	Summary of Results				
	05/07/2020	PASS				
	3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 3.26.				
	3.23	Describe the cause(s) of the toxicity:				
	3.24	Has the treatment works conducted a toxicity reduction evaluation? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 3.26.				
3.25	Provide details of any toxicity reduction evaluations conducted.					
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable because previously submitted information to the NPDES permitting authority.					

SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))					
Industrial Discharges and Hazardous Wastes	4.1 Does the POTW receive discharges from SIUs or NSCIUs? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.7.				
	4.2 Indicate the number of SIUs and NSCIUs that discharge to the POTW. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 50%;">Number of SIUs</th> <th style="width: 50%;">Number of NSCIUs</th> </tr> <tr> <td style="text-align: center;">1</td> <td></td> </tr> </table>	Number of SIUs	Number of NSCIUs	1	
	Number of SIUs	Number of NSCIUs			
	1				
	4.3 Does the POTW have an approved pretreatment program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	4.4 Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.6.				
4.5 Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.					
4.6 Have you completed and attached Table F to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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Industrial Discharges and Hazardous Wastes Continued	4.7	Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261?																		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.9.																			
	4.8	If yes, provide the following information:																		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Hazardous Waste Number</th> <th style="width: 55%;">Waste Transport Method (check all that apply)</th> <th style="width: 15%;">Annual Amount of Waste Received</th> <th style="width: 15%;">Units</th> </tr> <tr> <td></td> <td> <input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____ </td> <td></td> <td></td> </tr> <tr> <td></td> <td> <input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____ </td> <td></td> <td></td> </tr> <tr> <td></td> <td> <input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____ </td> <td></td> <td></td> </tr> </table>	Hazardous Waste Number	Waste Transport Method (check all that apply)	Annual Amount of Waste Received	Units		<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____				<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____				<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____					
	Hazardous Waste Number	Waste Transport Method (check all that apply)	Annual Amount of Waste Received	Units																
		<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____																		
		<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____																		
	<input type="checkbox"/> Truck <input type="checkbox"/> Rail <input type="checkbox"/> Dedicated pipe <input type="checkbox"/> Other (specify) _____																			
4.9	Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA?																			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 5.																				
4.10	Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)?																			
<input type="checkbox"/> Yes → SKIP to Section 5. <input type="checkbox"/> No																				
4.11	Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW?																			
<input type="checkbox"/> Yes <input type="checkbox"/> No																				

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))		
CSO Map and Diagram	5.1	Does the treatment works have a combined sewer system?
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6.	
	5.2	Have you attached a CSO system map to this application? (See instructions for map requirements.)
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.3	Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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CSO Outfall Description	5.4	For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)					
		CSO Outfall Number <u>002</u>		CSO Outfall Number <u>003</u>		CSO Outfall Number _____	
	City or town	Mount V ernon		Mount Vernon			
	State and ZIP code	WA, 98273		WA, 98273			
	County	Skagit		Skagit			
	Latitude	48° 24' 50" N		48° 25' 17" N		° ' "	
	Longitude	122° 20' 36" W		122° 20' 15" W		° ' "	
	Distance from shore	0 ft.		0 ft.		ft.	
	Depth below surface	0 ft.		0 ft.		ft.	
CSO Monitoring	5.5	Did the POTW monitor any of the following items in the past year for its CSO outfalls?					
		CSO Outfall Number <u>002</u>		CSO Outfall Number <u>003</u>		CSO Outfall Number _____	
	Rainfall	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	CSO flow volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	CSO pollutant concentrations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Receiving water quality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	CSO frequency	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Number of storm events	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
CSO Events in Past Year	5.6	Provide the following information for each of your CSO outfalls.					
		CSO Outfall Number <u>002</u>		CSO Outfall Number <u>003</u>		CSO Outfall Number _____	
	Number of CSO events in the past year	00 events		00 events		events	
	Average duration per event	0 hours <input checked="" type="checkbox"/> Actual or <input type="checkbox"/> Estimated		0 hours <input checked="" type="checkbox"/> Actual or <input type="checkbox"/> Estimated		hours <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	
	Average volume per event	0 million gallons <input checked="" type="checkbox"/> Actual or <input type="checkbox"/> Estimated		0 million gallons <input checked="" type="checkbox"/> Actual or <input type="checkbox"/> Estimated		million gallons <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	
	Minimum rainfall causing a CSO event in last year	N/A inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated		N/A inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated		inches of rainfall <input type="checkbox"/> Actual or <input type="checkbox"/> Estimated	

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CSO Receiving Waters	5.7	Provide the information in the table below for each of your CSO outfalls.		
		CSO Outfall Number ⁰⁰²	CSO Outfall Number ⁰⁰³	CSO Outfall Number _____
	Receiving water name	Skagit River	Skagit River	
	Name of watershed/ stream system	Skagit	Skagit	
	U.S. Soil Conservation Service 14-digit watershed code (if known)	<input type="checkbox"/> Unknown 17110007-050	<input type="checkbox"/> Unknown 17110007-505	<input type="checkbox"/> Unknown
	Name of state management/river basin	Lower Skagit River	Lower Skagit Rive	
	U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	<input type="checkbox"/> Unknown 12200500	<input type="checkbox"/> Unknown 12200500	<input type="checkbox"/> Unknown
	Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))			
Checklist and Certification Statement	6.1	In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	<input checked="" type="checkbox"/>	Section 1: Basic Application Information for All Applicants	<input type="checkbox"/> w/ variance request(s) <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 2: Additional Information	<input checked="" type="checkbox"/> w/ topographic map <input checked="" type="checkbox"/> w/ process flow diagram <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 3: Information on Effluent Discharges	<input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ Table D <input checked="" type="checkbox"/> w/ Table B <input checked="" type="checkbox"/> w/ Table E <input checked="" type="checkbox"/> w/ Table C <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 4: Industrial Discharges and Hazardous Wastes	<input type="checkbox"/> w/ SIU and NSCIU attachments <input checked="" type="checkbox"/> w/ Table F <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 5: Combined Sewer Overflows	<input checked="" type="checkbox"/> w/ CSO map <input type="checkbox"/> w/ additional attachments <input checked="" type="checkbox"/> w/ CSO system diagram
	<input checked="" type="checkbox"/>	Section 6: Checklist and Certification Statement	<input checked="" type="checkbox"/> w/ attachments
	6.2	Certification Statement <i>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 fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Jill Boudreau	Official title Mayor
	Signature 	Date signed 8/30/21	

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TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand <input checked="" type="checkbox"/> BOD ₅ or <input type="checkbox"/> CBOD ₅ (report one)	37	mg/l	13.6	mg/l	208	SM 5210 B-2011	<input type="checkbox"/> ML <input type="checkbox"/> MDL
Fecal coliform	3200	MPN/100 ml	135.9	MPN/100 ml	260	SM 9222 D(mFC)-06	<input type="checkbox"/> ML <input type="checkbox"/> MDL
Design flow rate	19.87	MGD	3.43	MGD	continuous		
pH (minimum)	6.3	standard units					
pH (maximum)	8.3	standard units					
Temperature (winter)	13.01	degrees celsius	12.98	degrees celsius	continuous		
Temperature (summer)	22.7	degrees celsius	21.1	degrees celsius	continuous		
Total suspended solids (TSS)	19	mg/l	3.2	mg/l	260	SM 2540 D-2011	<input checked="" type="checkbox"/> ML <input type="checkbox"/> MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge		Number of Samples	Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units			
Ammonia (as N)	55.6	mg/l	33.7	mg/l	252	EPA 350_1_2_1993	.034 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Chlorine (total residual, TRC) ²							<input type="checkbox"/> ML <input type="checkbox"/> MDL
Dissolved oxygen	3.23	mg/l	2.83	mg/l	4	SM4500 O G	<input type="checkbox"/> ML <input type="checkbox"/> MDL
Nitrate/nitrite	9.41	mg/l	2.7	mg/l	12	SM4500-NO3 F	.023 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Kjeldahl nitrogen	49.8	mg/l	29.4	mg/l	12	351.2	.585 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Oil and grease	1.7	mg/l	1.6	mg/l	4	1664	1.3 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Phosphorus	1.04	mg/l	.567	mg/l	12	SM4500-P	.043 <input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL
Total dissolved solids	289	mg/l	240	mg/l	4	SM2540 C	.10 <input checked="" type="checkbox"/> ML <input type="checkbox"/> MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

² Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as CaCO₃)	74.9	mg/l	68.6	mg/l	4	200.7/3010A	.8 □ ML ☑ MDL
Antimony, total recoverable	.00053	mg/l	.0027	mg/l	4	200.8/3010A	.00014 □ ML ☑ MDL
Arsenic, total recoverable	.00056	mg/l	.000335	mg/l	4	200.8/3010A	7.93E-5 □ ML ☑ MDL
Beryllium, total recoverable	.000016	mg/l	.000016	mg/l	4	200.8/3010A	1.46E-5 □ ML ☑ MDL
Cadmium, total recoverable	.00009	mg/l	.00003	mg/l	4	200.8/3010A	2.08E-05 □ ML ☑ MDL
Chromium, total recoverable	.0010	mg/l	.000598	mg/l	4	200.8/3010A	.00012 □ ML ☑ MDL
Copper, total recoverable	.0121	mg/l	.0267	mg/l	4	200.8/3010A	8.63E-05 □ ML ☑ MDL
Lead, total recoverable	.00041	mg/l	.00026	mg/l	4	200.8/3010A	6.66E-06 □ ML ☑ MDL
Mercury, total recoverable	.00192	mg/l	.00192	mg/l	4	7470A	1.90E-05 □ ML ☑ MDL
Nickel, total recoverable	.0042	mg/l	.00295	mg/l	4	200.8/3010A	4.60E-05 □ ML ☑ MDL
Selenium, total recoverable	.0003	mg/l	.0003	mg/l	4	200.8/3010A	.00016 □ ML ☑ MDL
Silver, total recoverable	.0002	mg/l	.00028	mg/l	4	200.8/3010A	2.27E-05 □ ML ☑ MDL
Thallium, total recoverable	.00021	mg/l	.000055	mg/l	4	200.8/3010A	3.26E-05 □ ML ☑ MDL
Zinc, total recoverable	.0223	mg/l	.0188	mg/l	4	200.8/3010A	.00047 □ ML ☑ MDL
Cyanide	.014	mg/l	.0309	mg/l	4	D7511-12	.004 □ ML ☑ MDL
Total phenolic compounds	.15	mg/l	.15	mg/l	4	420.4	.02 □ ML ☑ MDL
Volatile Organic Compounds							
Acrolein	ND	ug/l	ND	ug/l	4	624.1	1.66 □ ML ☑ MDL
Acrylonitrile	ND	ug/l	ND	ug/l	4	624.1	.56 □ ML ☑ MDL
Benzene	ND	ug/l	ND	ug/l	4	624.1	.23 □ ML ☑ MDL
Bromoform	ND	ug/l	ND	ug/l	4	624.1	.26 □ ML ☑ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .24
Chlorobenzene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28
Chlorodibromomethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28
Chloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .34
2-chloroethyvinyl ether	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .46
Chloroform	1.2	ug/l	.85	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .25
Dichlorobromomethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .11
1,1-dichloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .32
1,2-dichloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .38
trans-1,2-dichloroethylene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .34
1,1-dichloroethylene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .25
1,2-dichloropropane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .22
1,3-dichloropropylene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .31
Ethylbenzene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .29
Methyl bromide	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .37
Methyl chloride	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28
Methylene chloride	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28
1,1,2,2-tetrachloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .37
Tetrachloroethylene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .24
Toluene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .24
1,1,1-trichloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .26
1,1,2-trichloroethane	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .29
Vinyl chloride	ND	ug/l	ND	ug/l	4	624.1	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .28
Acid-Extractable Compounds							
p-chloro-m-cresol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
2-chlorophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .1
2,4-dichlorophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
2,4-dimethylphenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .4
4,6-dinitro-o-cresol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .3
2,4-dinitrophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .5
2-nitrophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
4-nitrophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .3
Pentachlorophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
Phenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .1
2,4,6-trichlorophenol	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .1
Base-Neutral Compounds							
Acenaphthene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .04
Acenaphthylene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .07
Anthracene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Benzidine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL 9.
Benzo(a)anthracene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Benzo(a)pyrene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
3,4-benzofluoranthene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .08

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Benzo(k)fluoranthene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .08
Bis (2-chloroethoxy) methane	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Bis (2-chloroethyl) ether	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Bis (2-chloroisopropyl) ether	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Bis (2-ethylhexyl) phthalate	1.1	ug/l	.68	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .1
4-bromophenyl phenyl ether	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .04
Butyl benzyl phthalate	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .03
2-chloronaphthalene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
4-chlorophenyl phenyl ether	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .04
Chrysene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
di-n-butyl phthalate	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .07
di-n-octyl phthalate	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .02
Dibenzo(a,h)anthracene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
1,2-dichlorobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .31
1,3-dichlorobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .29
1,4-dichlorobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .29
3,3-dichlorobenzidine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
Diethyl phthalate	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Dimethyl phthalate	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
2,4-dinitrotoluene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .07
2,6-dinitrotoluene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .09

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Fluoranthene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Fluorene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Hexachlorobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Hexachlorobutadiene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .09
Hexachlorocyclo-pentadiene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .2
Hexachloroethane	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .09
Indeno(1,2,3-cd)pyrene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .09
Isophorone	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .07
Naphthalene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Nitrobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
N-nitrosodi-n-propylamine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .1
N-nitrosodimethylamine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .3
N-nitrosodiphenylamine	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
Phenanthrene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .06
Pyrene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05
1,2,4-trichlorobenzene	ND	ug/l	ND	ug/l	4	625	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .05

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge		Number of Samples	Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units			
<input type="checkbox"/> No additional sampling is required by NPDES permitting authority.							
Aldrin	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .013
Alpha-BHC	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .021
Beta-BHC	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .009
gamma-BHC(Lindane)	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .015
delta-BHC	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .013
Chlordane	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .015
4,4'-DDT	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .011
4,4'-DDE	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .025
4,4'-DDD	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .011
Dieldrin	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .017
Endosulfan I	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .022
Endosulfan II	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .023
Endosulfan Sulfate	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .017
Endrin	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .013
Endrin Aldehyde	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .015
Heptachlor	ND	ug/l	ND	ug/l	1	608	<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL .024
							<input type="checkbox"/> ML <input checked="" type="checkbox"/> MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

STABLE D ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

[illegible]

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information	
	Test Number 1
Test species	Test Number 2
Age at initiation of test	Test Number 3
Outfall number	
Date sample collected	
Date test started	
Duration	
Toxicity Test Methods	
Test method number	EPA-821-R-02-012 EPA-821-R-02-013 EPA-821-R-02-012 EPA-821-R-02-013
Manual title	USEPA 2002a USEPA 2002b USEPA 2002a USEPA 2002b
Edition number and year of publication	Filth addition Fourth addition Filth addition Fourth addition
Page number(s)	Pg. 51-52,55-56. Pg.141-196,53-111. Pg. 51-52,55-56. Pg. 141-196,53-111. Pg. 141-196, 53-111.
Sample Type	
Check one:	<input type="checkbox"/> Grab <input type="checkbox"/> Grab
	<input checked="" type="checkbox"/> 24-hour composite <input checked="" type="checkbox"/> 24-hour composite
Sample Location	
Check one:	<input type="checkbox"/> Before Disinfection <input type="checkbox"/> Before disinfection
	<input checked="" type="checkbox"/> After Disinfection <input checked="" type="checkbox"/> After disinfection
	<input type="checkbox"/> After Dechlorination <input type="checkbox"/> After dechlorination
Point in Treatment Process	
Describe the point in the treatment process at which the sample was collected for each test.	after ultra violet disinfection after ultra violet disinfection after ultra violet disinfection
Toxicity Type	
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input type="checkbox"/> Acute
	<input type="checkbox"/> Chronic <input type="checkbox"/> Chronic
	<input checked="" type="checkbox"/> Both <input checked="" type="checkbox"/> Both

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information			
	Test Number 1	Test Number 2	Test Number 3
Test species	Ceriodaphnia, fathead minnow	Ceriodaphnia, fathead minnow	Ceriodaphnia, fathead minnow
Age at initiation of test	<24 hours	5 days post hatch	<24 hours
Outfall number	004	004	004
Date sample collected	10/12/2020	10/14/2020	10/16/2020
Date test started	10/12/2020	10/14/2020	10/16/2020
Duration	48 hrs	96 hrs	7 days
Toxicity Test Methods			
Test method number	EPA-821-R-02-012	EPA-821-R-02-012	EPA-821-R-02-012
Manual title	USEPA 2002a	USEPA 2002a	USEPA 2002a
Edition number and year of publication	Fifth addition	Fifth addition	Fifth addition
Page number(s)	Pg. 51-52,55-56.	Pg. 51-52,55-56.	Pg. 51-52,55-56.
Sample Type			
Check one:	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite	<input type="checkbox"/> Grab <input checked="" type="checkbox"/> 24-hour composite
Sample Location			
Check one:	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before Disinfection <input checked="" type="checkbox"/> After Disinfection <input type="checkbox"/> After Dechlorination	<input type="checkbox"/> Before disinfection <input checked="" type="checkbox"/> After disinfection <input type="checkbox"/> After dechlorination
Point in Treatment Process			
Describe the point in the treatment process at which the sample was collected for each test.	after ultra violet disinfection	after ultra violet disinfection	after ultra violet disinfection
Toxicity Type			
Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input checked="" type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input checked="" type="checkbox"/> Both	<input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input checked="" type="checkbox"/> Both

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number 1	Test Number 2	Test Number 3
Test Type			
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through
Source of Dilution Water			
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water
If laboratory water, specify type.	moderately hard synthetic	moderately hard synthetic	diluted mineral water
If receiving water, specify source.			
Type of Dilution Water			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)
Percentage Effluent Used			
Specify the percentage effluent used for all concentrations in the test series.	100% 50%	100% 50%	100% 50%
	25%	25%	25%
	12.5% 7.4%	12.5% 7.4%	7.4% 0.7%
Parameters Tested			
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature
	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen
Acute Test Results			
Percent survival in 100% effluent	97.5% 97.5 %	97.5% 97.5 %	97.5% 97.5 %
LC ₅₀	100% 100%	100% 100%	100% 100%
95% confidence interval	%	%	%
Control percent survival	100% 100%	100% 100%	100% 100%

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number 1	Test Number 2	Test Number 3
Test Type			
Indicate the type of test performed. (Check one response.)	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through	<input type="checkbox"/> Static <input checked="" type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through
Source of Dilution Water			
Indicate the source of dilution water. (Check one response.)	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water	<input checked="" type="checkbox"/> Laboratory water <input type="checkbox"/> Receiving water
If laboratory water, specify type.	moderately hard synthetic	moderately hard synthetic	diluted mineral water
If receiving water, specify source.			
Type of Dilution Water			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)	<input checked="" type="checkbox"/> Fresh water <input type="checkbox"/> Salt water (specify)
Percentage Effluent Used			
Specify the percentage effluent used for all concentrations in the test series.	100% 50%	100% 50%	100% 50%
	25%	25%	25%
	12.5% 7.4%	12.5% 7.4%	7.4% 0.7%
Parameters Tested			
Check the parameters tested.	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature	<input checked="" type="checkbox"/> pH <input type="checkbox"/> Salinity <input checked="" type="checkbox"/> Temperature
	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen	<input checked="" type="checkbox"/> Ammonia <input checked="" type="checkbox"/> Dissolved oxygen
Acute Test Results			
Percent survival in 100% effluent	0% 0%	0% 0%	0% 0%
LC ₅₀	63.7% 68.9%	63.7% 68.9%	63.7% 68.9%
95% confidence interval	%	%	%
Control percent survival	100% 100%	100% 100%	100% 100%

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number 1	Test Number 2	Test Number 3
Acute Test Results Continued			
Other (describe)			
Chronic Test Results			
NOEC	100 %	100 %	100 %
IC ₂₅	%	%	%
Control percent survival	100 %	100 %	100 %
Other (describe)			
Quality Control/Quality Assurance			
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
What date was reference toxicant test run (MM/DD/YYYY)?	02/04/2020	02/04/2020	02/04/2020
Other (describe)			

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater	Outfall Number 004
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number 1	Test Number 2	Test Number 3
Acute Test Results Continued			
Other (describe)			
Chronic Test Results			
NOEC	100 %	100 %	100 %
IC ₂₅	%	%	%
Control percent survival	100 %	100 %	100 %
Other (describe)			
Quality Control/Quality Assurance			
Is reference toxicant data available?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
Was reference toxicant test within acceptable bounds?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
What date was reference toxicant test run (MM/DD/YYYY)?	10/06/2020	10/06/2020	10/06/2020
Other (describe)			

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EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater
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TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

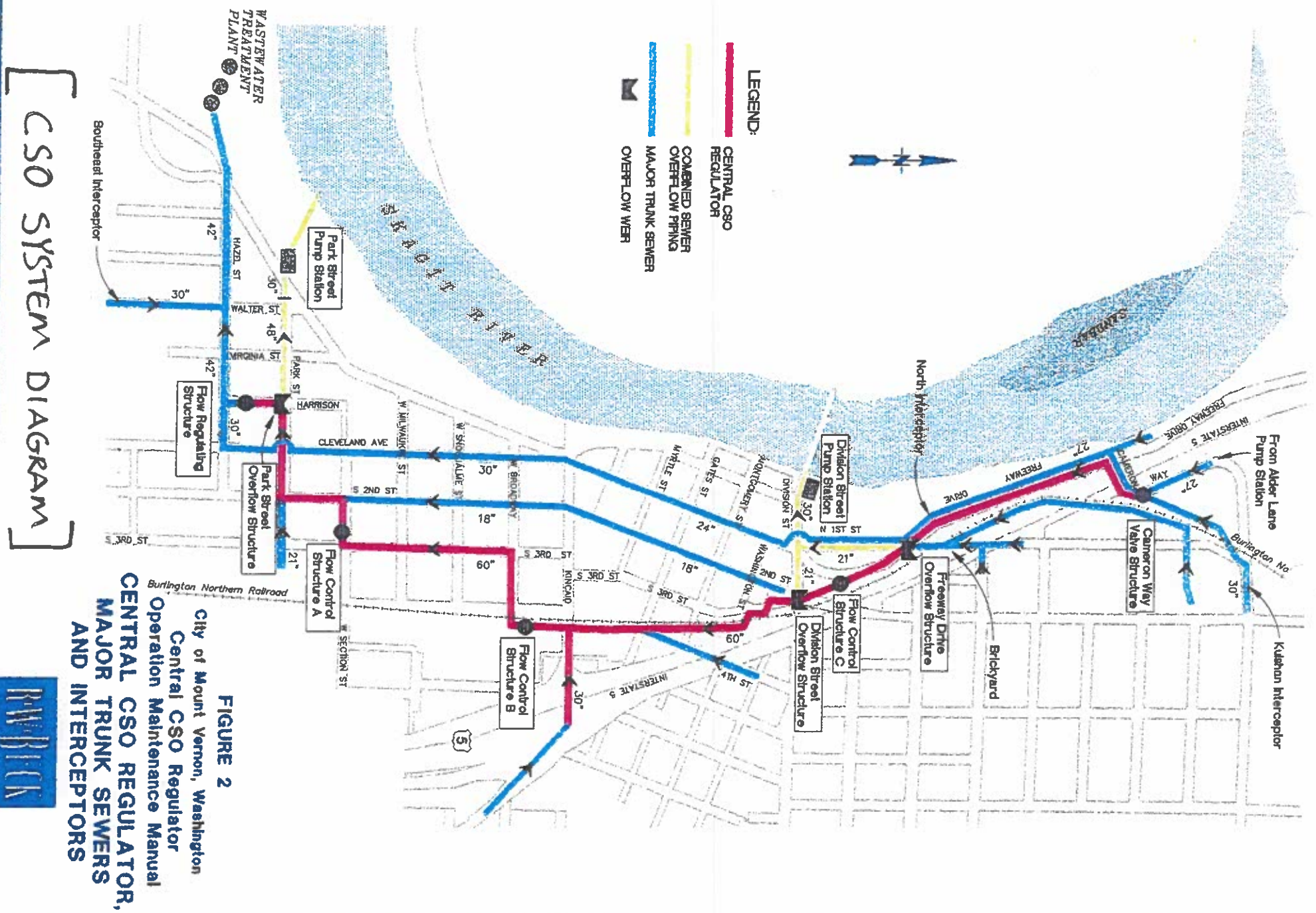
	SIU ____	SIU ____	SIU ____
Name of SIU	Perdue Farms LLC Draper Valley Farms		
Mailing address (street or P.O. box)	1500 E college way suite A pmb 449		
City, state, and ZIP code	Mount Vernon WA 98273		
Description of all industrial processes that affect or contribute to the discharge.	Rendering live chickens for human consumption.		
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Processing of poultry (chickens).		
Indicate the average daily volume of wastewater discharged by the SIU.	.342 gpd	gpd	gpd
How much of the average daily volume is attributable to process flow?	.342 gpd	gpd	gpd
How much of the average daily volume is attributable to non-process flow?		gpd	gpd
Is the SIU subject to local limits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the SIU subject to categorical standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

EPA Identification Number 110000569484	NPDES Permit Number WA0024074	Facility Name City of Mount Vernon Wastewater
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TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40CFR Part 413 and 40 CFR Part 471		
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU? If yes, describe.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No




PROJECT MANAGER	ERIC C. BERGSTROM
DESIGNED	E. C. BERGSTROM
DRAWN	L. L. BRAILETT
CHECKED	
PROJECT NUMBER	000000000018326

the 1990s, the number of people in the United States who are 65 years of age or older has increased by 25% (U.S. Census Bureau, 1997). The number of people aged 65 and older is projected to increase to 35% of the total population by the year 2020 (U.S. Census Bureau, 1997). The increase in the number of people aged 65 and older is due to the increase in life expectancy. The life expectancy at birth in the United States has increased from 47 years in 1900 to 75 years in 1990 (U.S. Census Bureau, 1997). The increase in life expectancy is due to a number of factors, including improvements in medical care, nutrition, and living conditions. The increase in life expectancy has led to a number of challenges for society, including the need for more retirement and health care resources. The increase in the number of people aged 65 and older has also led to a number of changes in the labor force. Many people aged 65 and older are now working, either full-time or part-time. This has led to a number of changes in the labor force, including the need for more training and education for older workers. The increase in the number of people aged 65 and older has also led to a number of changes in the housing market. Many people aged 65 and older are now living in retirement communities or assisted living facilities. This has led to a number of changes in the housing market, including the need for more retirement and assisted living facilities. The increase in the number of people aged 65 and older has also led to a number of changes in the social service system. Many people aged 65 and older are now receiving social services, such as counseling and support groups. This has led to a number of changes in the social service system, including the need for more social service resources. The increase in the number of people aged 65 and older has also led to a number of changes in the health care system. Many people aged 65 and older are now receiving health care services, such as medical care and nursing home care. This has led to a number of changes in the health care system, including the need for more health care resources. The increase in the number of people aged 65 and older has also led to a number of changes in the economy. Many people aged 65 and older are now working, either full-time or part-time. This has led to a number of changes in the economy, including the need for more training and education for older workers. The increase in the number of people aged 65 and older has also led to a number of changes in the labor force. Many people aged 65 and older are now working, either full-time or part-time. This has led to a number of changes in the labor force, including the need for more training and education for older workers. The increase in the number of people aged 65 and older has also led to a number of changes in the housing market. Many people aged 65 and older are now living in retirement communities or assisted living facilities. This has led to a number of changes in the housing market, including the need for more retirement and assisted living facilities. The increase in the number of people aged 65 and older has also led to a number of changes in the social service system. Many people aged 65 and older are now receiving social services, such as counseling and support groups. This has led to a number of changes in the social service system, including the need for more social service resources. The increase in the number of people aged 65 and older has also led to a number of changes in the health care system. Many people aged 65 and older are now receiving health care services, such as medical care and nursing home care. This has led to a number of changes in the health care system, including the need for more health care resources. The increase in the number of people aged 65 and older has also led to a number of changes in the economy. Many people aged 65 and older are now working, either full-time or part-time. This has led to a number of changes in the economy, including the need for more training and education for older workers.

City of **Mount Vernon**

WASTEWATER TREATMENT PLANT UPGRADE PHASE 1

OVERALL SITE PLAN

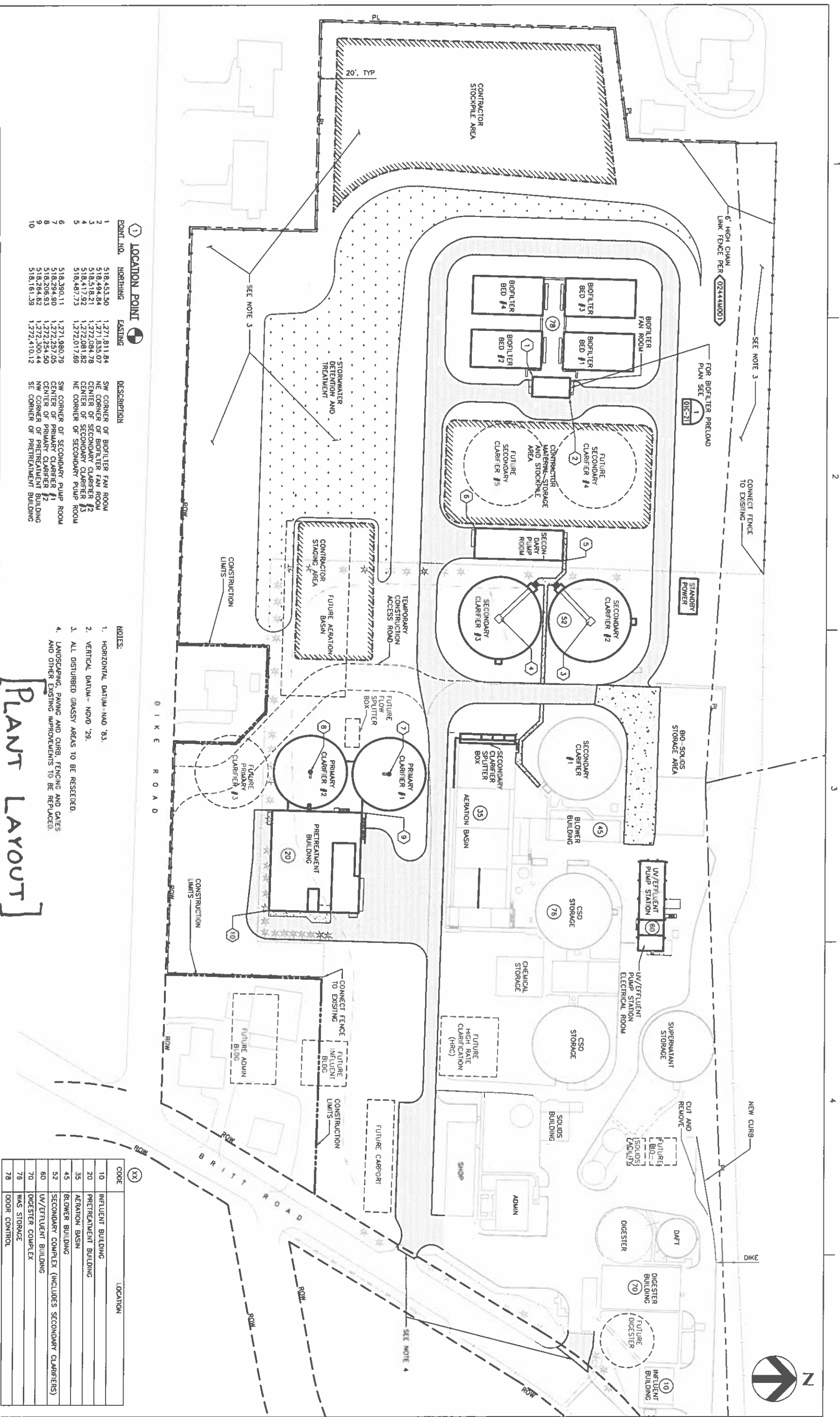


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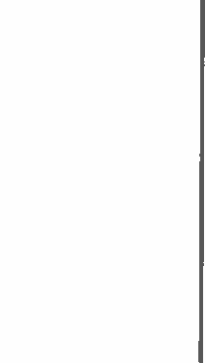
00G-08





ISSUE	DATE	AS RECORDED	DESCRIPTION
1	OCT 2009		

PROJECT MANAGER	ERIC C. BERGSTROM
DESIGNED	S. CHILUKURI
DRAWN	S. D. GUNDY
CHECKED	
PROJECT NUMBER	0000000000018326



WASTEWATER TREATMENT PLANT
UPGRADE PHASE 1

HYDRAULIC PROFILE

FILENAME 00G-11.dwg
SCALE NONE

SHEET
00G-11

Process Flow Diagram

LEGEND

ASSUMES: 16.4 MGD

1 INFLUENT SCREEN

1 GRIT BASIN

2 PRIMARY CLARIFIERS

2 SECONDARY CLARIFIERS

IF SHOWN ASSUMES: 16.4 MGD

1 INFLUENT SCREEN

1 GRIT BASIN

1 PRIMARY CLARIFIER

2 SECONDARY CLARIFIERS

IF SHOWN ASSUMES: 22 MGD

1 INFLUENT SCREEN

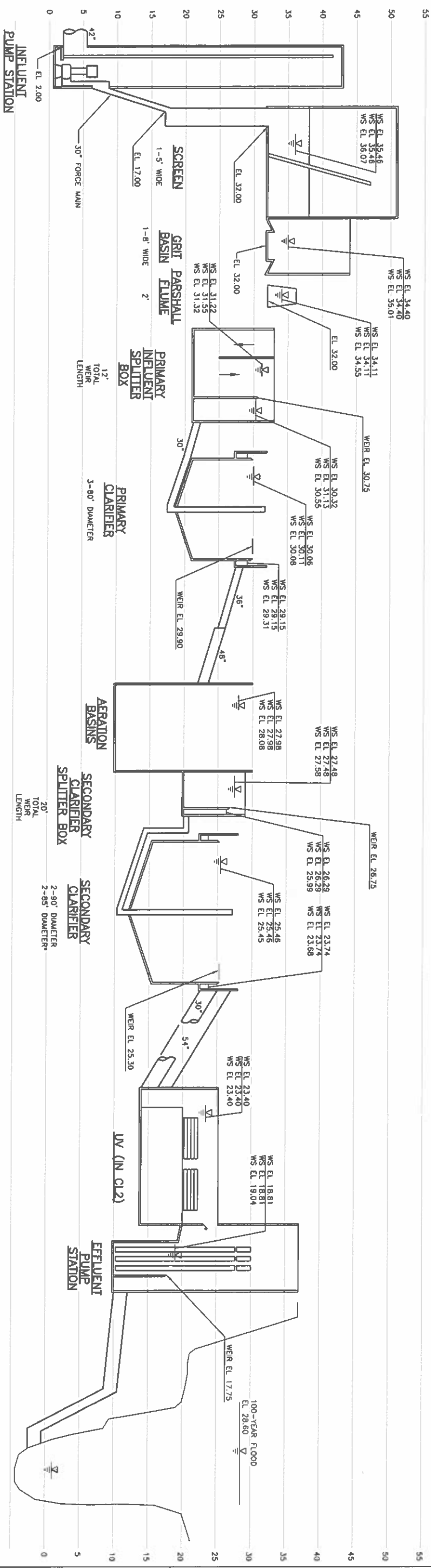
1 GRIT BASIN

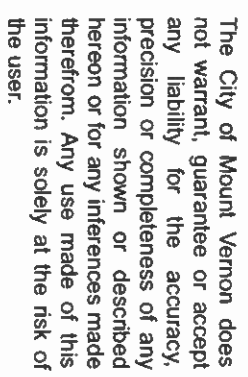
1 PRIMARY CLARIFIER

3 SECONDARY CLARIFIERS

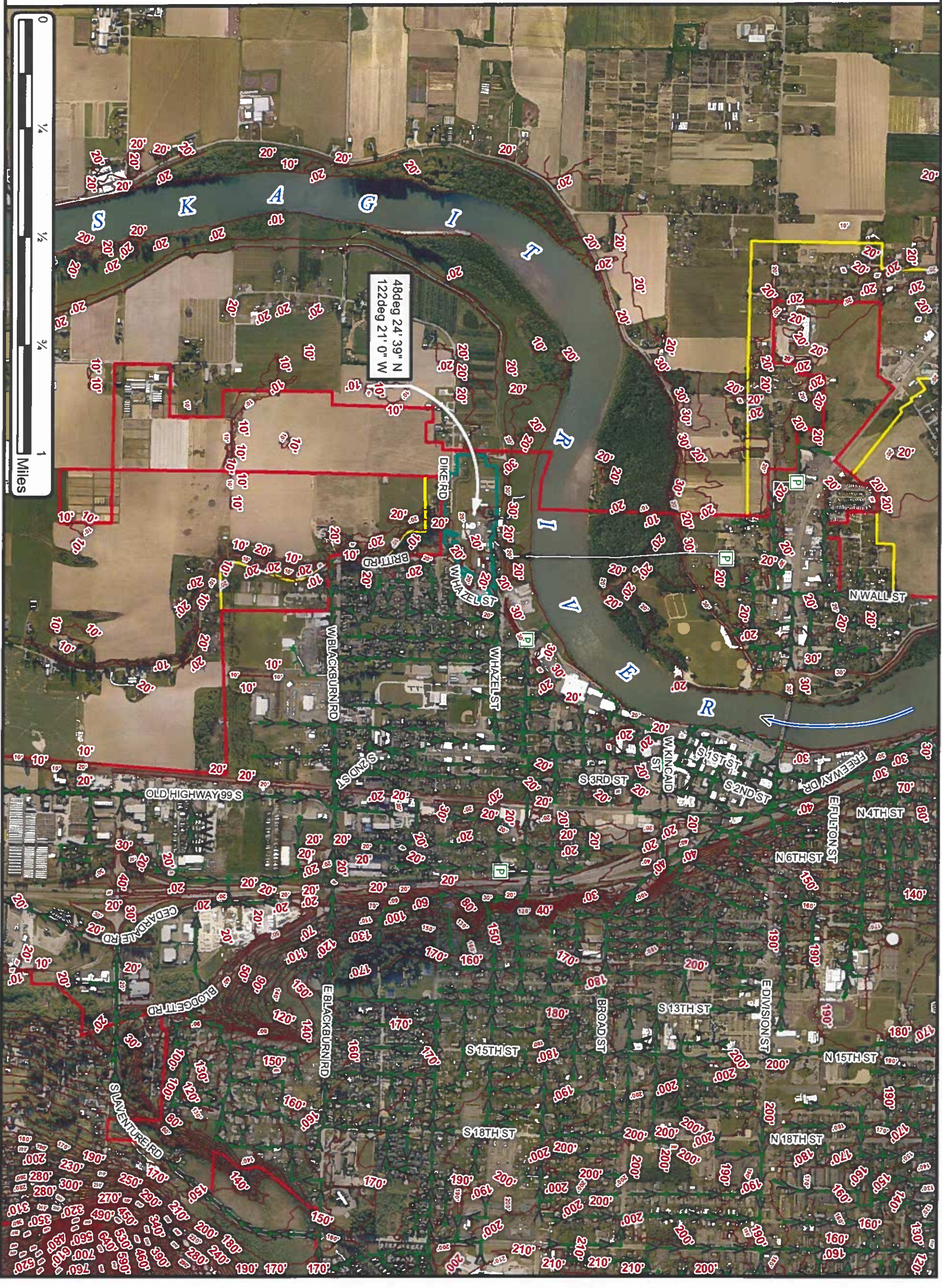
HYDRAULIC PROFILE

NTS





Map updated 08/16/2021 by MV
GIS



MOUNT VERNON WWTP TREATMENT PROCESS DESCRIPTION

It is the intent of the City of Mount Vernon Wastewater Utility to operate its treatment plant in the BOD removal mode year round. This will allow for the greatest possible treatment capacity throughout the entire year.

The design criteria developed by HDR Engineering Inc. in 2006, determined the flow and loading influent rates for the facility operating in BOD removal mode to be as follows.

- Maximum Monthly Average Flow = 15.0 MGD
- Maximum Monthly Average BOD Loading = 17,300 lbs./day
- Maximum Monthly Average TSS Loading = 18,300 lbs./day

In the BOD removal mode, WWTP staff will work to maintain a MCRT of about 5 days and the MLSS concentration would be held between 1200 and 1500 mg/l. During this time the targeted DO would be around 1.5 to 2.0 mg/l. There may be times, depending on the process, that the DO set point could be as high as 3.5.

At high flows Plant Staff will check the blanket levels in the Secondary Clarifiers and make sure there is no activated sludge floc escaping over the weirs. If there is floc in the Clarifier effluent Staff will place online the third Secondary Clarifier. If floc continues to be present in the Secondary Clarifier effluent Staff will open the gate valve to the first CSO Storage Unit. After the first CSO storage unit filled, flow would proceed to the second CSO storage unit which was old Secondary Clarifier #1. If the high flow event continued after both of these units were full, Staff would begin throttling down Influent flow using the SCADA system which controls the Influent Pumps.

While in the BOD removal mode, there is an option to have an anoxic cell online. The anoxic cell would be the first cell in the aeration basins that the forward flow enters. There are several benefits of having the anoxic cell online. By using the MLSS recycle pumps, basin discharge can be pumped back into the anoxic cell to help buffer pH drop which in turn will reduce the potential need for chemical addition to maintain the pH level. The MLSS pumps can be run in either a fixed paced mode or a flow paced mode. The anoxic cell also helps control the growth of certain filamentous organisms, and helps promote the formation of firm floc particles thru the denitrification process.

The WWTP Phase 1 Upgrade included a pre-aeration cell (#1A) for treating filtrate with a separate metered, RAS feed line. The detention time in this cell can be adjusted by adjusting the RAS feed rate which is controlled by an automated gate valve. This allows for the conversion of the high concentration of ammonia nitrogen in the filtrate to nitrate nitrogen apart from the forward flow. The normal operating mode for the RAS flow control valve will be flow paced at 50% of the filtrate flow. This pre-aeration cell must be used for filtrate treatment during operation in the Nitrification Mode but can be converted back to treat forward flow in the BOD removal mode. This would also add to the BOD removal capacity in the wetter months.