



February 24, 2025

Municipality of West Grey 402813 Grey Rd 4 RR#2 Durham, ON NOG 1R0

Attention: Geoff Aitken, Manager of Public Works

RE: Neustadt Sewage Lagoons System 2024 Annual Report

The 2024 Annual Summary Report for the Neustadt Sewage Lagoons Facility is enclosed. The report is prepared in accordance with Certificate of Approval Sewage Number 4631-6V4KUY annual report criteria and contains the following required components:

- A summary and interpretation of all monitoring data and a comparison to C of A effluent limits, including an overview of the success and adequacy of the works;
- A description of any operating problems encountered and corrective actions taken;
- A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming a part of the works;
- A summary of any effluent quality assurance or control measures undertaken in the reporting period;
- A summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- A description of efforts made and results achieved in meeting the effluent objectives;
- A tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- A summary of any complaints received during the reporting period and any steps taken to address the complaints; and
- A summary of all bypass, overflow, spill or abnormal discharge events.

On behalf of the municipality, a copy of this report is being sent to the MECP – Owen Sound District Office. If you have any questions, please direct your comments or concerns to the undersigned.

Sincerely,

Scott Gowan Project Manager

Veolia Water Canada Inc.

1 Influent Monitoring and Historical Trends (as per ECA Section 11.4(a))

The Neustadt Wastewater Treatment Facility achieved all Certificate of Approval (Environmental Compliance Approval) effluent limits during 2024.

The annual average day flow was 218m³/d (16% less than in 2023 and slightly below the five year average of 242 m³), approximately 52% of the system's design capacity of 418m³/d. The maximum day flow was 635 m³ in April and was due to heavy precipitation. It is believed that there is a significant infiltration component to these flows as the daily flow processed by the drinking water system in 2024 was only about 140m³/d.

In the table below, a comparison of **2024** raw sewage parameters is compared to the five year average of those same parameters.

Type text here

Raw Sewage Parameter	2024 Avg (mg/L)	Historical Five Year Avg.
TKN	52.1	41.6
TSS	471	255
BOD ₅	229	197
Total P	6.65	5.45

Note that the above values are grab samples as per the Certificate of Approval Requirement. Therefore, these results can vary significantly.

Overall, the 2024 raw sewage concentrations were all higher than the five year historical averages, but still within expected Raw Sewage Concentrations.

2 Final Effluent Monitoring Data (as per ECA Section 11.4(b))

Plant performance data is compared to the performance criteria in the Table below

	Seasonal	Average Concentratio	n, mg/L
	Spring Discharge (April 1-May 31)	Fall Discharge (Nov. 1- Dec. 31)	
Parameter	Final Effluent	Final Effluent	MOE Effluent Limits
CBOD₅	16.4	15.4	30

Suspended Solids	33.6	19.8	40
Total Phosphorus	0.19	0.29	1

Effluent was discharged from the lagoons from April 2 to April 15, Dec. 2 to Dec. 18 inclusive. A total of approximately 58,023m³ was discharged in 2024.

Effluent pH was maintained between 6.0 and 9.0 throughout the discharge period.

All Effluent Limits from the ECA were met, however the Federal annual average limit of 25 mg/l for Total Suspended Solids was exceeded. An annual average of 26.7 mg/l was achieved for 2024. The suspected cause of this exceedance was related to an elevated amount of algae on the lagoon surface.

The Annual Federal Report and Monthly MUMP (S1) forms for 2024 are attached.

3 Monitoring Schedule summary (11.4(c))

In 2024, efforts were made to collect monthly raw samples on the first Tuesday of each month.

Effluent samples were collected during each discharge period at the beginning of each discharge as well as at 25%, 50% and 75% drawdown and at the end of each seasonal discharge

4 Description of Operating Problems (as per ECA Section 11.4(d))

A review of flow data from the water and wastewater systems indicate there is significant infiltration into the Neustadt collection system. Some months have three times the flow going to the lagoons than is leaving the drinking water plant. For example in April of 2024 the average flow from the Water Treatment Facility was 122 m3/day while the average Raw Sewage flow was 348 m3/day. Typically Raw Sewage flow rates should be less than or equal to Water Treatment flows.

A flow meter is now available to measure the flow being discharged from the lagoons.

5 Maintenance Summary (as per ECA Section 11.4(5))

- Alum tank venting inspected regularly
- Annual flow meter calibration and generator inspection completed
- Bar screens raked biweekly
- Diesel genset at pumping station tested monthly
- Annual Diesel Generator Maintenance, and Bi-Annual Load Test was Performed
- Wet well pumped out and washed down as required
- Regular safety checks (eyewash, fire extinguishers, emergency lighting)
- Backflush raw sewage pumps monthly

6 Effluent Quality Assurance or Control Measures (as per ECA Section 11.4(f))

A grab sample of raw sewage is collected monthly and tested for BOD₅, suspended solids (TSS), total phosphorus (TP) and Total Kjeldahl Nitrogen (TKN).

Prior to discharging the lagoon, the waste stabilization cells are sampled for BOD₅, TSS, TP, total ammonia, pH, hydrogen sulfide and dissolved oxygen.

During discharge periods in spring and fall, grab samples are collected at least twice weekly (minimum of five total) and analyzed for BOD₅, TSS, TP, TKN, ammonia-nitrogen, E. Coli and hydrogen sulfide.

All samples were sent to SGS Laboratories for analysis

7 Effluent Monitoring Equipment Calibration/Maintenance (as per ECA Section 11.4(g))

The raw flow meter was calibrated in April 2024. The calibration report is on file in the Veolia West Grey Shared drive.

8 Compliance with Effluent Objectives (as per ECA Section 11.4(h))

		1	ge Concentration ng/L)
Parameter	Spring Discharge	Fall Discharge	Effluent Objectives
CBOD ₅	16.4	15.4	25
Suspended Solids	<mark>33.6</mark>	19.8	30
Total Phosphorus	0.19	0.29	1

During the spring discharge the Effluent Objective of 30 mg/l Total Suspended Solids was exceeded at 33.6 mg/l. The suspected cause of this objective exceedance was related to an elevated amount of algae on the lagoon surface. All other Effluent Objectives were met.

Average daily influent flow was about 52% of the rated capacity in 2024.

9 Sludge Management (as per ECA Section 11.4(i))

Sludge depths were measured in Q3 2020. It is estimated that about 16-20% of the combined volume of the two cells contains sludge.

There was no sludge removed from this system in 2024. A clean out of the lagoons is not needed at this time. Another check of sludge depths will likely take place in 2025.

10 Summary of Complaints (as per ECA Section 11.4(j))

No complaints in 2024

11 Summary of Bypasses, Overflows and/or Spills (as per ECA Section 11.4(k))

There were no Bypass, Overflow, or Spill incidents in 2024.

12 Summary of all Notice of Modifications to Sewage Works Not applicable

13 Summary of efforts to achieve conformance with Procedure F-5-1 and F-5-5

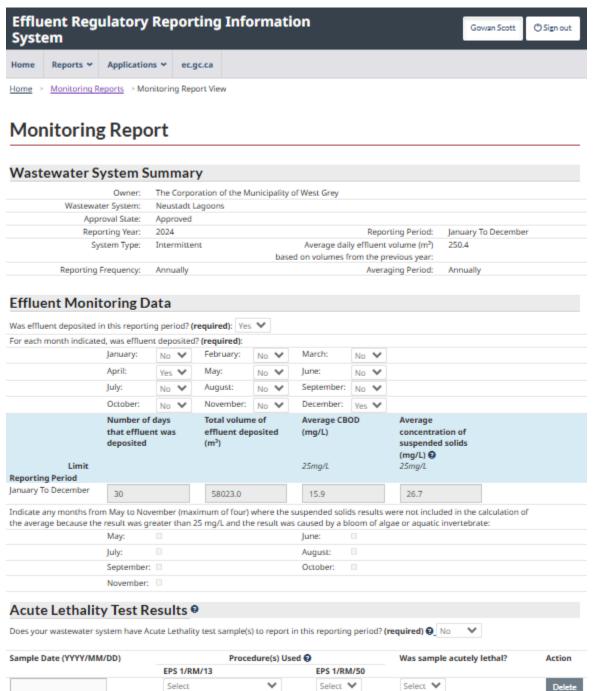
Bypasses are not typically an issue for this system. There have been no bypasses in recent years

Municipality of West Grey Neustadt Wastewater Lagoon System

2024	RAV	V FLOWS	, m³	FINA	L FLOW	5, m³	BOD	5/CBOD5	T	ss	TOTA	L PHOS	TK	(N	Ammonia	H2S	E Coli
Month	Total Flow	Avg Day, m ^s	Max Day, m³	Total Flow	Avg Day, m³	Max Day, m ^s	Raw BOD5	Final CBOD5	Raw	Final	Raw	Final	Raw	Final	Final	Final	Geomean
1	10,201	329	591	n/a	n/a	n/a	243.0	n/a	224.0	n/a	4.35	n/a	38.7	n/a	n/a	n/a	n/a
2	7,929	273	373	n/a	n/a	n/a	43.0	n/a	29.0	n/a	3.40	n/a	29.9	n/a	n/a	n/a	n/a
3	9,256	299	363	n/a	n/a	n/a	172.0	n/a	111.0	n/a	2.81	n/a	29.9	n/a	n/a	n/a	n/a
4	10,431	348	635	48,472	3,462	3,729	278.0	16.4	359.0	33.6	5.66	0.19	49.7	5.9	4.5	0.02	226
5	7,513	242	412	n/a	n/a	n/a	312.0	n/a	161.0	n/a	6.14	n/a	37.7	n/a	n/a	n/a	n/a
6	4,687	156	201	n/a	n/a	n/a	306.0	n/a	381.0	n/a	4.37	n/a	36.4	n/a	n/a	n/a	n/a
7	5,240	169	411	n/a	n/a	n/a	415.0	n/a	242.0	n/a	8.73	n/a	73.9	n/a	n/a	n/a	n/a
8	4,610	149	201	n/a	n/a	n/a	106.0	n/a	196.0	n/a	9.94	n/a	55.0	n/a	n/a	n/a	n/a
9	4,114	137	164	n/a	n/a	n/a	114.0	n/a	1,610.0	n/a	9.50	n/a	66.0	n/a	n/a	n/a	n/a
10	3,815	123	143	n/a	n/a	n/a	308.0	n/a	1,490.0	n/a	9.70	n/a	75.0	n/a	n/a	n/a	n/a
11	3,906	130	157	n/a	n/a	n/a	319.0	n/a	538.0	n/a	12.50	n/a	114.0	n/a	n/a	n/a	n/a
12	8,137	262	634	9,551	562	597	131.0	15.4	313.0	19.8	2.64	0.29	19.5	4.5	2.58	0.02	213.0
Sum	79,839			58,023													
Average	6,653	218			2,012		228.9	15.9	471.2	26.7	6.6	0.24	52.1	5.2	3.5	0.02	n/a
Max	10,431		635			3,729	415.0	16.4	1,610.0	33.6	12.5	0.29	114.0		4.5	0.02	226.0
C of A limit		418.0						30.0		40.0		2.00					

Spring discharge: April 2-15 Fall discharge: December 2-18







Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 **Operating Authority** Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period ³ Discharge Update File No. Days Works Number Month Type Code Year 4 6 1 0 0 2 4 4 3 0 0 2 4 3 2 R 0 1 22 80 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 10.201 3 Average Daily Flow (103 m3/d) 50015 0.329 Maximum Daily Flow $(10^3 \text{ m}^3/\text{d})$ 50020 3 0.591 30 35 46 # of Occurrences 3 Bypass 13 Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 # of Samples 3 6 Raw Sewage BODs 243 (mg/L) 00001 0 1 1 224 Suspended Solids 00006 0 (mg/L) 2 38.70 1 TKN (mg/L) 00020 1 00033 1 **Total Phosphorus** (mg/L) 4.4 9 Final Effluent Total Effl. Volume To Watercourse (103 m3) 3 50280 Flow Duration (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 00002 BOD₅ (mg/L) 00001 1 Suspended Solids 00006 1 (mg/L) Ammonia + Ammonium 00019 2 (mg/L) 2 00020 TKN (mg/L) 2 **Total Phosphorus** (mg/L) 00033 34 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Ministry Contact Email Address * no effluent discharge in January matthew.shannon@ontario.ca



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Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 **Operating Authority** Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period ³ Discharge Update File No. Days Works Number Month Type Code Year 4 6 1 0 0 2 4 4 3 0 0 2 4 3 0 2 R 0 4 22 80 16 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 10.431 3 Average Daily Flow (103 m3/d) 50015 0.348 Maximum Daily Flow $(10^3 \text{ m}^3/\text{d})$ 50020 3 0.635 30 35 46 # of Occurrences 3 Bypass ¹³ Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 # of Samples 3 6 Raw Sewage BODs 278 (mg/L) 00001 0 1 1 359 Suspended Solids 00006 0 (mg/L) 2 49.70 1 TKN (mg/L) 00020 00033 1 1 **Total Phosphorus** (mg/L) 5.7 9 Final Effluent Total Effl. Volume To Watercourse (103 m3) 3 50280 48.472 Flow Duration 312.0 (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 5 00002 16.4 BOD₅ (mg/L) 00001 1 5 Suspended Solids 00006 1 33.6 (mg/L) Ammonia + Ammonium 00019 2 4.48 5 (mg/L) 2 5 00020 5.92 (mg/L) 2 5 **Total Phosphorus** (mg/L) 00033 0.19 34 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Comments Ministry Contact Email Address * matthew.shannon@ontario.ca



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12 13	Alkalinity, 1		(mg/L)	00	0051			4									
	Conductivit	ty 25°C	(µS/cm)	91	1004			4									
	E. Coli		(CT/100ml)	91	1000			4				22	25.00				5
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12 13	Total CO													94.00	4			1
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12 13	Alkalinity,	Total	(mg/L)		00051			4										
	Conductiv	vity 25°C	(µS/cm)		91004			4										
	E. Coli		(CT/100ml)		91000			4										
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4										
	Nitrite, Un	filtered reactive	(mg/L)		00021			4										
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		ure, Water	(°C)		80250			4										
	_	d Ammonia	(mg/L)		91012			4										
	Dissolved		(mg/L)		00003			4							4			
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12 13	Alkalinity,	Total	(mg/L)		00051			4								r			
	Conductiv	vity 25°C	(µS/cm)		91004			4								r			
	E. Coli		(CT/100ml)		91000			4											
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4											
	Nitrite, Un	filtered reactive	(mg/L)		00021			4											
	рН				80770			4											
		ure, Water	(°C)		80250			4											
	_	d Ammonia	(mg/L)		91012			4							_				
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3 6	Raw Sewa	age		Para	ameter (Со	de	Dec	1	Mon	thly	Avera	ge R	esults		# of	f Samp	les		
12 13	Total CO	D (mg/L)											7	20.00)			1		
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3 9	Final Efflu	ient		Para	ameter (Co	de	Dec	1	Mon	thly	Avera	ge R	esults	7	# of	f Samp	les		
12 13	Alkalinity,	Total	(mg/L)		00051			4							1					
	Conductiv		(µS/cm)		91004			4							1					
	E. Coli		(CT/100ml)		91000			4							1					
	Nitrate, Ui	nfiltered reactive	(mg/L)		00022			4							1					
	Nitrite, Un	filtered reactive	(mg/L)		00021			4												
	рН				80770			4												
	Temperate	ure, Water	(°C)		80250			4							1					
	Un-ionize	d Ammonia	(mg/L)		91012			4												
	Dissolved	Oxygen	(mg/L)		00003			4												
	Hydrogen	Sulphide	(mg/L)		83008			4												
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Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 **Operating Authority** Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period ³ Discharge Update File No. Days Works Number Month Type Code Year 4 6 1 0 0 2 4 4 3 0 0 2 4 3 0 2 R 0 9 22 80 16 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 4.114 3 Average Daily Flow (103 m3/d) 50015 0.137 Maximum Daily Flow $(10^3 \text{ m}^3/\text{d})$ 50020 3 0.164 30 35 46 # of Occurrences 3 Bypass ¹³ Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 # of Samples 3 6 Raw Sewage BODs 114 (mg/L) 00001 0 1 1 1610 Suspended Solids 00006 0 (mg/L) 2 66.00 1 TKN (mg/L) 00020 1 00033 1 **Total Phosphorus** (mg/L) 9.5 9 Final Effluent Total Effl. Volume To Watercourse (103 m3) 3 50280 Flow Duration (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 00002 BOD₅ (mg/L) 00001 1 Suspended Solids 00006 1 (mg/L) Ammonia + Ammonium 00019 2 (mg/L) 2 00020 TKN (mg/L) 2 **Total Phosphorus** (mg/L) 00033 34 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Comments Ministry Contact Email Address * matthew.shannon@ontario.ca



Project N Neustac		e Lagoons																_	
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12 13	Total CO													355.0	_			1	
	Volatile S	Suspended Solids	s (mg/)										ę	967.0	0			1	
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3 9	Final Efflu	ient		Par	ameter (Со	de	Dec	1	Mont	hly	Avera	ige F	esults		# o	f Samples	3	
12 13	Alkalinity,	Total	(mg/L)		00051			4											
	Conductiv	vity 25°C	(µS/cm)		91004			4											
	E. Coli		(CT/100ml)		91000			4											
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4											
	Nitrite, Un	filtered reactive	(mg/L)		00021			4											
	рН				80770			4											
	Temperat	ure, Water	(°C)		80250			4											
	Un-ionize	d Ammonia	(mg/L)		91012			4											
	Dissolved		(mg/L)		00003			4											
	Hydrogen		(mg/L)		83008			4											
	Total CO	DD (mg/L)																	
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12 13	Total CO											,		580.		t		•	1		
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12 13	Alkalinity,	Total	(mg/L)		00051			4								t					
	Conductiv	vity 25°C	(µS/cm)		91004			4								Ī					
	E. Coli		(CT/100ml)		91000)		4								T					
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4													
	Nitrite, Un	filtered reactive	(mg/L)		00021			4													
	рН				80770			4													
		ure, Water	(°C)		80250			4	_						\Box						
	_	d Ammonia	(mg/L)		91012			4	_						\Box	-					
	Dissolved		(mg/L)		00003			4	4						\dashv	-					
	Hydrogen		(mg/L)		83008	_		4		-						-					
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12 13	Total CO														0.00				1		
	Volatile S	Suspended Solids	s (mg/)											510	0.00				1		
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3 9	Final Efflu	ient		Par	rameter (Сс	ode	Dec	;] !	Mor	nthl	y Av	erage	Res	ults	B	# o	f Sam	ples		
12 13	Alkalinity,	Total	(mg/L)		00051			4													
	Conductiv	vity 25°C	(µS/cm)		91004			4													
	E. Coli		(CT/100ml)		91000)		4													
	Nitrate, U	nfiltered reactive	(mg/L)		00022	-		4													
	Nitrite, Un	filtered reactive	(mg/L)		00021			4													
	рН				80770			4													
	Temperat	ure, Water	(°C)		80250			4													
	_	d Ammonia	(mg/L)		91012			4	1												
	Dissolved		(mg/L)		00003			4	4												
	Hydrogen		(mg/L)		83008	}		4													
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12 13	Alkalinity,	Total	(mg/L)	0	0051			4										
	Conductiv	rity 25°C	(µS/cm)	9	1004			4										
	E. Coli		(CT/100ml)	9	1000			4					3.0000			5		
	Nitrate, Ui	nfiltered reactive	(mg/L)	0	0022			4				().2900			5		
	Nitrite, Un	filtered reactive	(mg/L)		0021			4					0.0300	5				
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		d Ammonia	(mg/L)		1012			4										
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