

Permit Fact Sheet

General Information

Permit Number	WI-0020648-11-0
Permittee Name and Address	Village of Balsam Lake PO Box 506 404 Main Street, Balsam Lake, WI 54810
Permitted Facility Name and Address	Village of Balsam Lake 901 Old Main Street
Permit Term	January 01, 2026 to December 31, 2030
Discharge Location	Seepage cells are located at NW ¼ SE ¼ of section 10; T34N-R17W
Receiving Water	The groundwater of the Balsam Branch watershed within the St. Croix River drainage basin in Polk County.
Discharge Type	Existing continuous discharger
Annual Average Design Flow (MGD)	0.120 MGD
Industrial or Commercial Contributors	No
Plant Classification	A4 - Ponds, Lagoons and Natural Systems; SS - Sanitary Sewage Collection System
Approved Pretreatment Program?	N/A

Facility Description

The Village of Balsam Lake owns and operates a domestic wastewater treatment system. The plant designed to treat 120,000 gallons per day currently treats an average of 91,000 gallons per day (June 2020- June 2025 data). The treatment system consists of two aerated ponds and four seepage cells. In the aerated ponds naturally occurring bacteria and other micro-organisms metabolize organic matter in the waste. The treated water (effluent) is discharged to the seepage cells. The sandy soil in the bottom of the seepage cells help filter the water further, as it percolates through the soil eventually reaching the groundwater. Six monitoring wells placed around the perimeter of the system are used to monitor any groundwater impacts.

Substantial Compliance Determination

There have been a few minor violations of effluent limits. The Village of Balsam Lake's CMOM program also needs to be updated. In response to this inspection report, the department is working with the facility to take the necessary steps to correct the violations.

After a review of all Discharge Monitoring Reports, Groundwater Monitoring Reports, CMARs, and a site visit on 06/18/2024 by Carson Johnson, WDNR, the Village of Balsam Lake has been found to be in substantial compliance with their current permit.

Since the previous inspection on 06/18/2024, one BOD monthly average limit violation has occurred. Balsam Lake has updated their CMOM program and is working on obtaining the proper certifications and experience for their operator. The Village of Balsam Lake is substantially compliant with their current WPDES permit, and the department will continue to work with the facility to address any outstanding concerns.

Compliance determination made by Carson Johnson, WDNR on August 5, 2025.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	Discharge Flow, Units, and Averaging Period	Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)
701	INFLUENT An average of 0.091 MGD (June 2020 – June 2025 data)	Representative samples of the plant influent shall be taken at Manhole "A", located prior to the aerated lagoons.
001	EFFLUENT An average of 0.093 MGD (June 2020 – June 2025 data)	Representative samples of the plant effluent shall be taken at Control Manhole "C", prior to discharge to the seepage cells.
002	SLUDGE Sludge last removed July 2004. Estimate 2 tons generated each year. (information provided in application)	Representative samples of the lagoon sludge shall be collected by compositing several samples taken across the bottom of the lagoons.

Sample Point Designation For Groundwater Monitoring Systems	
Sample Pt Number and Well Name	Comments
802	Side gradient non-point of standard well located north of Seepage Cell #3
805	Down gradient Point of standard well located southeast of Aerated Cell #1
806	Up gradient non-point of standard well located north of the treatment system
807	Side gradient Point of standard well located south of Seepage Cell #5
808	Down gradient Point of standard well located east of the treatment system
809	Up gradient background well used to calculate PALs located west of Seepage Cells #5 and 6

Permit Requirements

1 Influent – Monitoring Requirements

1.1 Sample Point Number: 701- INFLUENT PLANT

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		MGD	Daily	Total Daily	

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
BOD5, Total		mg/L	Weekly	Grab	
Suspended Solids, Total		mg/L	Weekly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	Organic Nitrogen = Total Kjeldahl Nitrogen (mg/L) - Ammonia Nitrogen (mg/L)
Nitrogen, Ammonia (NH3-N) Total		mg/L	Monthly	Grab	

Changes from Previous Permit:

Influent limitations and monitoring requirements were evaluated for this permit term and no changes were required in this permit section.

Explanation of Limits and Monitoring Requirements

Influent monitoring is needed to assess loading to the facility and treatment performance. The required parameters and sampling frequency are appropriate for a land treatment system as outlined in ch NR 206, Wis. Adm.

2 Land Treatment – Monitoring and Limitations

2.1 Sample Point Number: 001- EFFLUENT

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Flow Rate		MGD	Daily	Total Daily	
BOD5, Total	Monthly Avg	50 mg/L	Weekly	Grab	
Suspended Solids, Total		mg/L	Weekly	Grab	
pH Field		su	Weekly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	"Organic Nitrogen = Total Kjeldahl Nitrogen (mg/L) - Ammonia Nitrogen (mg/L)
Nitrogen, Ammonia		mg/L	Monthly	Grab	

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
(NH3-N) Total					
Nitrogen, Nitrite + Nitrate Total		mg/L	Monthly	Grab	
Solids, Total Dissolved		mg/L	Monthly	Grab	
Chloride		mg/L	Monthly	Grab	
Nitrogen, Total		mg/L	Monthly	Calculated	Total Nitrogen = Total Kjeldahl Nitrogen (mg/L) + (Nitrite+Nitrate) Nitrogen (mg/L)

Changes from Previous Permit:

Effluent limitations and monitoring requirements were evaluated for this permit term and no changes were required in this permit section.

Explanation of Limits and Monitoring Requirements

All requirements for land treatment of municipal wastewater are determined in accordance with ch. NR 206, Wis. Adm. Code. All categorical limits are based on s. NR 206.08(1) Wis. Adm. Code. More information on the limitations can be found in the “Groundwater Evaluation for Village of Balsam Lake” memo dated August 20, 2025.

3 Groundwater – Monitoring and Limitations

3.1 Groundwater Monitoring System for Monitoring Well System

Location of Monitoring system: Located around the perimeter of the treatment units.

Groundwater Monitoring Well(s) to be Sampled: 802, 805, 807, 806, 808, 809

Groundwater Monitoring Well(s) Used to Evaluate Background Groundwater Quality: 809

Groundwater Monitoring Well(s) Used for Point of Standards Application: 808, 807, 805

Parameter	Units	Preventative Action Limit	Enforcement Standard	Frequency
Depth To Groundwater	feet	N/A	N/A	Quarterly
Groundwater Elevation	feet MSL	N/A	N/A	Quarterly
Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	2.0	10	Quarterly
Chloride Dissolved	mg/L	125	250	Quarterly
pH Field	su	8.3	N/A	Quarterly

Nitrogen, Total Kjeldahl Dissolved	mg/L	N/A	N/A	Quarterly
Nitrogen, Ammonia Dissolved	mg/L	0.97	9.7	Quarterly
Nitrogen, Organic Dissolved	mg/L	2.3	N/A	Quarterly
Solids, Total Dissolved	mg/L	480	N/A	Quarterly

Changes from Previous Permit:

Groundwater limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit. See additional explanation of limits under “Explanation of Limits and Monitoring Requirements” below.

- There are PAL changes for field pH and total dissolved solids.
- There were PAL and ES changes for ammonia.

Explanation of Limits and Monitoring Requirements

Groundwater limits and requirements are determined in accordance with ch. NR 140, Wis. Adm. Code. Indicator parameter Preventive Action Limit (PAL) values are established per s. NR 140.20, Wis. Adm. Code. Alternative Concentration Limits as allowed under s. NR 140.28, Wis. Adm. Code, are established on a case-by-case basis.

For more information, please refer to the “Groundwater Evaluation for Village of Balsam Lake” memo dated August 20, 2025

4 Land Application - Monitoring and Limitations

Municipal Sludge Description						
Sample Point	Sludge Class (A or B)	Sludge Type (Liquid or Cake)	Pathogen Reduction Method	Vector Attraction Method	Reuse Option	Amount Reused/Disposed (Dry Tons/Year)
002	B	Liquid	Sludge removal is not anticipated this permit term. If removal is needed see the land application and schedule sections of the permit for more information.			
Does sludge management demonstrate compliance? Yes						
Is additional sludge storage required? No						
Is Radium-226 present in the water supply at a level greater than 2 pCi/liter? No, the most recent set of samples from 2020 were below the level of detection.						
Is a priority pollutant scan required? No						

4.1 Sample Point Number: 002- Aerated Pond 1&2 Sludge Sample

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Solids, Total		Percent	Once	Composite	

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Arsenic Dry Wt	Ceiling	75 mg/kg	Once	Composite	
Arsenic Dry Wt	High Quality	41 mg/kg	Once	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Once	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Once	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Once	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Once	Composite	
Lead Dry Wt	Ceiling	840 mg/kg	Once	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Once	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Once	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Once	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Once	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Once	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Once	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Once	Composite	
Selenium Dry Wt	High Quality	100 mg/kg	Once	Composite	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Once	Composite	
Zinc Dry Wt	High Quality	2,800 mg/kg	Once	Composite	
Nitrogen, Total Kjeldahl		Percent	Per Application	Composite	
Nitrogen, Ammonia (NH3-N) Total		Percent	Per Application	Composite	
Phosphorus, Total		Percent	Per Application	Composite	
Phosphorus, Water Extractable		% of Tot P	Per Application	Composite	
Potassium, Total Recoverable		Percent	Per Application	Composite	
PCB Total Dry Wt	Ceiling	50 mg/kg	Once	Composite	See the Sludge Analysis for PCBs permit section.
PCB Total Dry Wt	High Quality	10 mg/kg	Once	Composite	See the Sludge Analysis for PCBs permit section.
PFOA + PFOS		ug/kg	Once	Calculated	Report the sum of PFOA and PFOS. See PFAS permit sections for more in-

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
					formation.
PFAS Dry Wt			Once	Grab	Perfluoroalkyl and Polyfluoroalkyl Substances based on updated DNR PFAS List. See PFAS Permit Sections for more information.

Changes from Previous Permit:

Sludge limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit. See additional explanation of limits under “Explanation of Limits and Monitoring Requirements” below.

PFAS –Monitoring is required once pursuant to s. NR 204.06(2)(b)9., Wis. Adm. Code.

Explanation of Limits and Monitoring Requirements

Requirements for disposal, including land application of municipal sludge, are determined in accordance with ch. NR 204, Wis. Adm. Code. Ceiling and high-quality limits for metals in sludge are specified in s. NR 204.07(5). Requirements for pathogens are specified in s. NR 204.07(6) and in s. NR 204.07 (7) for vector attraction requirements. Limitations for PCBs are addressed in s. NR 204.07(3)(k). Radium requirements are addressed in s. NR 204.07(3)(n).

PFAS- The presence and fate of PFAS in municipal and industrial sludges is an emerging public health concern. EPA has developed a draft risk assessment to determine future land application rates and released this risk assessment in January of 2025. The department is evaluating this new information. Until a decision is made, the “Interim Strategy for Land Application of Biosolids and Industrial Sludges Containing PFAS” should be followed

Collecting sludge data on PFAS concentrations from a wide range of wastewater treatment facilities will help protect public health from exposure to elevated levels of PFAS and determine the department’s implementation of EPA’s recommendations. To quantitate this risk, PFAS sampling has been included in this WPDES permit pursuant to ss. NR 214.18(5)(b) and NR 204.06(2)(b)9., Wis. Adm. Code.

5 Schedules

5.1 Land Treatment Management Plan

A management plan is required for the land treatment system.

Required Action	Due Date
Land Treatment Management Plan Submittal: Submit an update to the management plan to optimize the land treatment system performance and demonstrate compliance with ch. NR 206, Wis. Adm. Code. The land treatment system shall be operated in accordance with the approved management plan.	03/31/2026

Explanation of Schedule

Land Treatment Management Plan (industrial)- An up-to-date Land Treatment Management plan is a standard requirement in reissued industrial permits per ch. NR 204, Wis. Adm. Code.

5.2 Sludge Management Plan

Required Action	Due Date
Submit a Sludge Management Plan: The permittee shall submit an update to the management plan for approval if removal of sludge will occur during this permit term. The plan shall demonstrate compliance with ch. NR 204 Wis. Adm. Code and at minimum address 1) How and where is sludge sampled; 2) Available sludge storage details and location(s); 3)How will the sludge be removed with details on volume, characterization and how will the treatment plant continue to function during the drawdown; 4) Describe the type of transportation and spreading vehicles and loading and unloading practices; 5) Identify approved land application sites, apply for needed sites, site limitations, total acres needed and vegetative cover management; 6) Specify record keeping procedures including site loading; 7) Address contingency plans for adverse weather and odor/nuisance abatement; and 8) Include any other pertinent information such as other disposal options that may be used or specifications of any pretreatment processes Once approved, all sludge management activities shall be conducted in accordance with the plan. Any changes to the plan must be approved by the Department prior to implementing the changes. No desludging may occur unless approval from the Department is obtained. Daily logs shall be kept that record where the sludge has been disposed. The plan is due at least 60 days prior to desludging.	

Explanation of Schedule

Sludge Management Plan (municipal facility with a lagoon)- If the lagoons are to be desludged during this permit term a management plan is needed to show compliance with ch. NR 204, Wis. Adm. Code. There are outlines available to assist in plan development.

Attachments

Water Flow Schematic(s)

NR 140 Groundwater Evaluation Report memo dated August 20, 2025

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

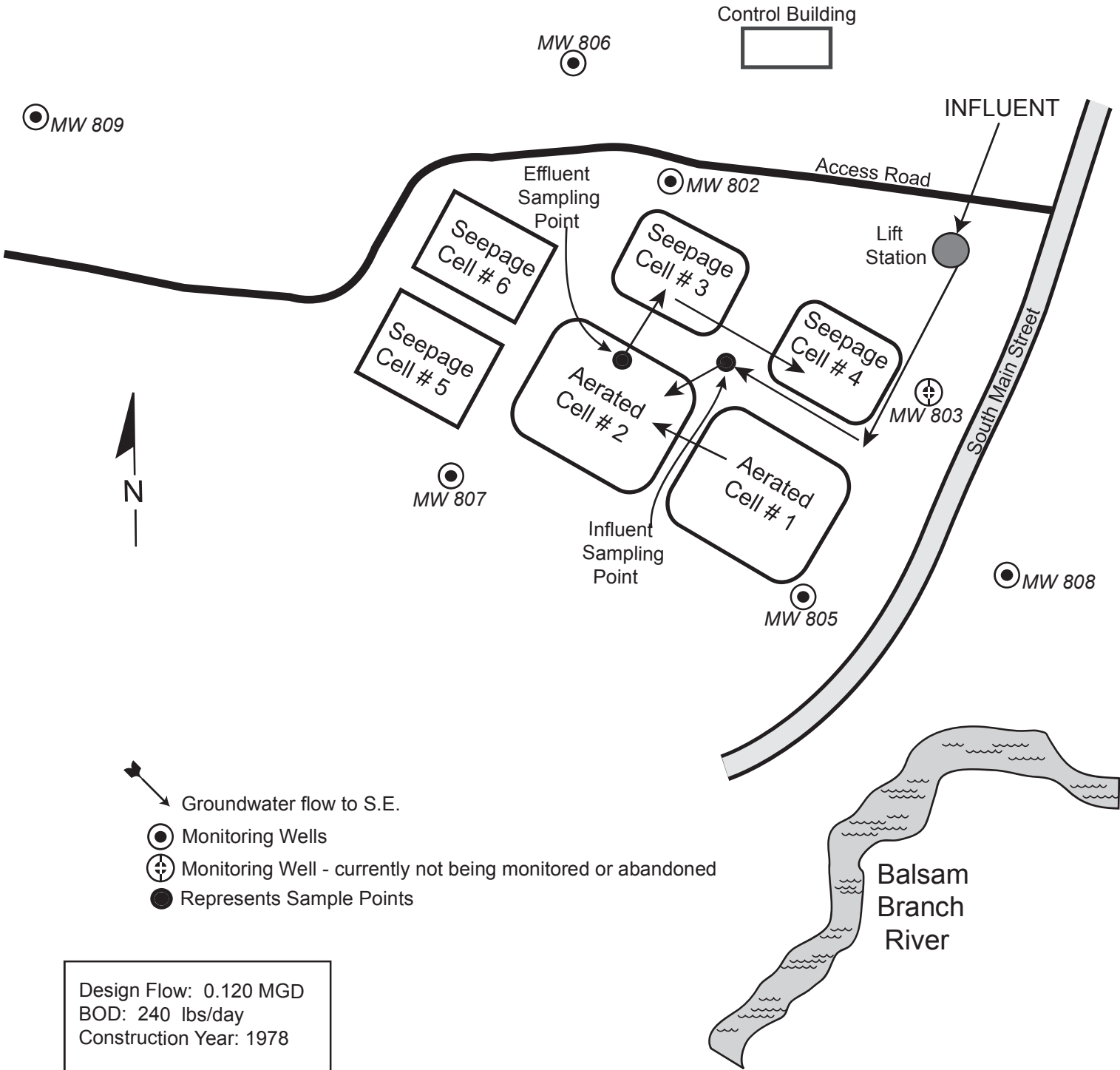
Prepared By: Sheri A. Snowbank

Wastewater Specialist

Date: October 3, 2025

Village of Balsam Lake Wastewater Treatment Facility

The Balsam Lake wastewater treatment facility consists of two aerated ponds operated in series, followed by four seepage cells. There are 6 active groundwater monitoring wells around the perimeter of the system. The diagram below shows the treatment units and sampling locations.



DATE: August 20, 2025

TO: File

FROM: Woody Myers - WCR 

SUBJECT: Groundwater Evaluation for Village of Balsam Lake, WI-0020648

Site Information

The Balsam Lake Wastewater Treatment Facility is located at 901 Old Main Street, Village of Balsam Lake, Polk County. This is a municipal wastewater treatment facility. Wastewater is currently treated and discharged to groundwater via infiltration by way of absorption ponds (seepage cells) a land disposal system; located in the NW ¼ of the SE ¼ of Section 10, T34N, R10W, Town of Balsam Lake.

Land Disposal Effluent & Groundwater Evaluation Summary

**Table 1 Land Disposal Outfall Sampling Point Parameters and Limits
Outfall 001 Absorption Ponds**

Parameter	Current Permit WI-0020648-10		Proposed Permit WI-0020648-11	
	Limits and Units	Limit Type	Limits and Units	Limit Type
Flow Rate	- MGD		- MGD	
BOD ₅	50 mg/l	Monthly Avg	50 mg/l	Monthly Avg
Total Suspended Solids	- mg/l		- mg/l	
pH, Field	- su		- su	
Nitrogen, Total Kjeldahl	- mg/l		- mg/l	
Nitrogen, Organic	- mg/l		- mg/l	
Nitrogen, Ammonia	- mg/l		- mg/l	
Nitrogen, Nitrite + Nitrate	- mg/l		- mg/l	
Total Dissolved Solids	- mg/l		- mg/l	
Chloride	- mg/l		- mg/l	
Nitrogen, Total	- mg/l		- mg/l	

No proposed permit changes

Table 2 Monitoring Wells

Well	Current Permit WI-0020648-10		Proposed Permit WI-0020648-11	
	Well Location	Well Designation	Well Location	Well Designation
802	Side-gradient	Non-Point of Standard	Side-gradient	Non-Point of Standard
805	Down-gradient	Point of Standard	Down-gradient	Point of Standard
806	Up-gradient	Non-Point of Standard	Up-gradient	Non-Point of Standard
807	Side-gradient	Point of Standard	Side-gradient	Point of Standard
808	Down-gradient	Point of Standard	Down-gradient	Point of Standard
809	Up-gradient	Background	Up-gradient	Background

No proposed permit changes

Table 3 Groundwater Quality Standards

*	Current Permit WI-0020648-10		Proposed WI-0020648-11	
	PAL	ES	PAL	ES
Depth to Groundwater	N/A	N/A	N/A	N/A
Groundwater Elevation	N/A	N/A	N/A	N/A
Nitrogen, Nitrite + Nitrate	2.0 mg/l	10.0 mg/l	2.0 mg/l	10.0 mg/l
Chloride	125 mg/l	250 mg/l	125 mg/l	250 mg/l
pH, Field	6.2-8.2 su	N/A	*6.3-8.3 su	N/A
Nitrogen Total Kjeldahl	N/A	N/A	N/A	N/A
Nitrogen, Ammonia	2.1 mg/l (ACL)	9.7 mg/l	*0.97 mg/l	9.7 mg/l
Nitrogen, Organic	2.3 mg/l	N/A	2.3 mg/l	N/A
Total Dissolved Solids	340 mg/l	N/A	*480 mg/l	N/A

* Proposed permit changes

Geology

The bedrock under this facility is the Tunnel City Group. This Group includes the Mazomanie and the Lone Rock Formations. The Lone Rock Formation is comprised of the Reno, Tomah and Birkmose Members. The Tunnel City Group is comprised of interbedded sandstone and rare occurrences of a flat pebbled conglomerate (*Bedrock Geology of Wisconsin, Regional Map Series Northwest Sheet*, Wisconsin Geological and Natural History Survey (WGNHS), 1987). Bedrock was not encountered during installation of the groundwater monitoring wells and is anticipated to be greater than 100 feet below ground surface (bgs) (*Depth to Bedrock in Wisconsin*, WGNHS, 1973). The regolith consists of material ranging from gravel to sand with occurrences of clay (lacustrine) deposits. Surface soil primarily consists of the Santiago-Antigo silt loam, Cromwell sandy loam and Amery complex (USDA NRCS Web Soil Survey).

Hydrogeology

Calculated groundwater elevation ranges between 1093 and 1114 feet above mean sea level (msl). Depth to groundwater was reported to be between 7 and 27 feet bgs. Groundwater flow direction was calculated to be predominantly to the south. Regional groundwater flow direction in this area is in Polk County is to the south (*Generalized Water-Table Elevation Map of Polk County, Wisconsin*, WGNHS, 2000). The site is approximately 300 feet northwest of Balsam Branch. There are six wells (municipal, other than municipal, private and high-capacity) within a 1,500-foot range of this facility's groundwater discharge.

Land Disposal Effluent Quality and Loading Rates

The following table is the average flow (hydraulic loading), total nitrogen, chloride and BOD₅ loading summations for the Land Disposal System.

Table 5 Land Treatment Disposal Loading Averages

Year	Flow (MGD)	Nitrogen (mg/l)	Chloride (mg/l)	BOD5 (mg/l)
2025#	0.085	39.69	270	35.7
2024	0.088	33.97	223	34.8
2023	0.085	33.78	251	30.3
2022	0.081	36.33	292	37.9
2021	0.109	28.6	201	24.5
2020	0.106	35.1	220	27.6

Indicates partial year

Groundwater Monitoring System and Sampling Frequency

All parameters are analyzed for the dissolved phase in groundwater. Established groundwater quality standards are found in Table 1 Public Health Groundwater Quality Standards s. NR 140.10 Wis. Adm. Code, and Table 2 Public Welfare Groundwater Standards s. NR 140.12 Wis. Adm. Code. The thresholds of these standards are the Enforcement Standard (ES) and the Preventative Action Limit (PAL).

Table 6 Groundwater Monitoring Well Data

Sample Point	Well Name	Elevation (feet above msl)				Length (feet)		Well Type
		Casing Top	Ground Surface	Screen Top	Screen Bottom	Screen Length	Well Depth	
802	802	1120.90	1118.2	1098.2	1093.2	5.0	27.7	P
805	805	1117.30	1115.5	1085.5	1080.5	5.0	36.8	P
806	806	1129.54	1127.0	1107.5	1097.5	10.0	32.0	P
807	807	1124.20	1121.8	1101.8	1091.8	10.0	32.4	P
808	808	1103.06	1100.9	1097.9	1087.9	10.0	15.1	WT
809	809	1139.56	1137.2	1112.2	1107.2	5.0	32.0	P

All measurements in feet

WT-Water table Observation P-Piezometer O-Other

Groundwater sampling results from this facility have been analyzed for each well to evaluate trends of the regulated compounds in groundwater and to calculate PALs for s. NR 140.22 Wis. Adm. Code Indicator Parameters and to evaluate potential exemptions under s. NR 140.28 Wis. Adm. Code. The groundwater was evaluated by looking at the groundwater data from March 10, 2020 – June 17, 2025.

Background Groundwater Quality

There were no PAL exceedances observed in the background groundwater quality in wells 806 and 809.

Down-Gradient Groundwater Quality

The only compound that exceeded its PAL was nitrite + nitrate. These exceedances were observed in groundwater monitoring wells 807 and 808. Groundwater monitoring well 808 had only one exceedance and the exceedances in well 807 were sporadic in magnitude, however, they occurred consistently in the month of June. See Figure 1.

Land Disposal System Impact to Groundwater Quality

Concentrations and trends in the groundwater monitoring data were compared to the loading data for the land disposal system. There is not a clear correlation between the effluent loading levels of nitrite + nitrate and the groundwater monitoring results.

Proposed Groundwater Monitoring Requirements Permit WI-0020648-11

**Table 7 Groundwater Quality Sampling Frequency and Limits
Outfall 001 Absorption Ponds**

Sample Point	Well Name	Sample Frequency	Well Designation
802	802	Quarterly	Non-Point of Standard
805	805	Quarterly	Point of Standard
806	806	Quarterly	Non-Point of Standard
807	807	Quarterly	Point of Standard
808	808	Quarterly	Point of Standard
809	809	Quarterly	Background
Parameter	PAL	ES	Source
Depth to Groundwater	N/A	N/A	Measured
Groundwater Elevation	N/A	N/A	Measured
Nitrogen, Nitrite + Nitrate	2.0 mg/l	10.0 mg/l	NR 140 Table 1
Chloride	125 mg/l	250 mg/l	NR 140 Table 2
pH, Field	*6.3-8.3 su	N/A	Calculated
Nitrogen, Kjeldahl	N/A	N/A	Measured
Nitrogen, Ammonia	*0.97 mg/l	9.7 mg/l	NR 140 Table 1
Nitrogen, Organic	2.3 mg/l	N/A	Calculated
Total Dissolved Solids	*480 mg/l	N/A	Calculated

* Proposed permit changes

Indicator Parameter PALs

Indicator Parameter PALs are developed following the procedures described in s. NR 140.20(2), Wis. Adm. Code. Indicator parameters do not have Enforcement Standards. The PAL for an indicator parameter is a benchmark for evaluating site specific trends. When significant increases in the trends are observed, the facility and the department's response action under s. NR 140.24 Wis. Adm. Code should be to investigate the source of the compound. The following equations were used to calculate the indicator parameter PALs:

$$\sum [\text{Mean of the background groundwater quality} + \text{Minimum Increase (NR 140.20 Table 3)}] = \text{PAL}$$

And for pH:

$$\sum [\text{Mean of the background groundwater quality} \pm 1 \text{ su}] = \text{upper and lower PAL}$$

Alternative Concentration Limits

Alternative concentration Limits (ACLs) can be developed and provided for a groundwater monitoring system utilizing the procedures described in s. NR 140.28, Wis. Adm. Code. ACLs were calculated using the following equation:

$$\Sigma [\text{Mean of the background groundwater quality} + (2) \times \text{Standard Deviation of Results}] = \text{ACL}$$

Conclusions

There are no recommended changes to the effluent parameters or their associated limits for the next permit issuance. The groundwater flow direction remained consistent since the last evaluation, so there are no recommended changes to the groundwater monitoring well locations or their designations.

Groundwater exceedances for nitrate + nitrite have been observed in groundwater monitoring wells 807 and 808. Both of these wells are point of standards designated wells. The department recommends the facility look at their load and rest cycles for the absorption ponds with the intent of optimizing their performance. A s. NR 140.24 Wis. Adm. Code, response action is not being required at this time.

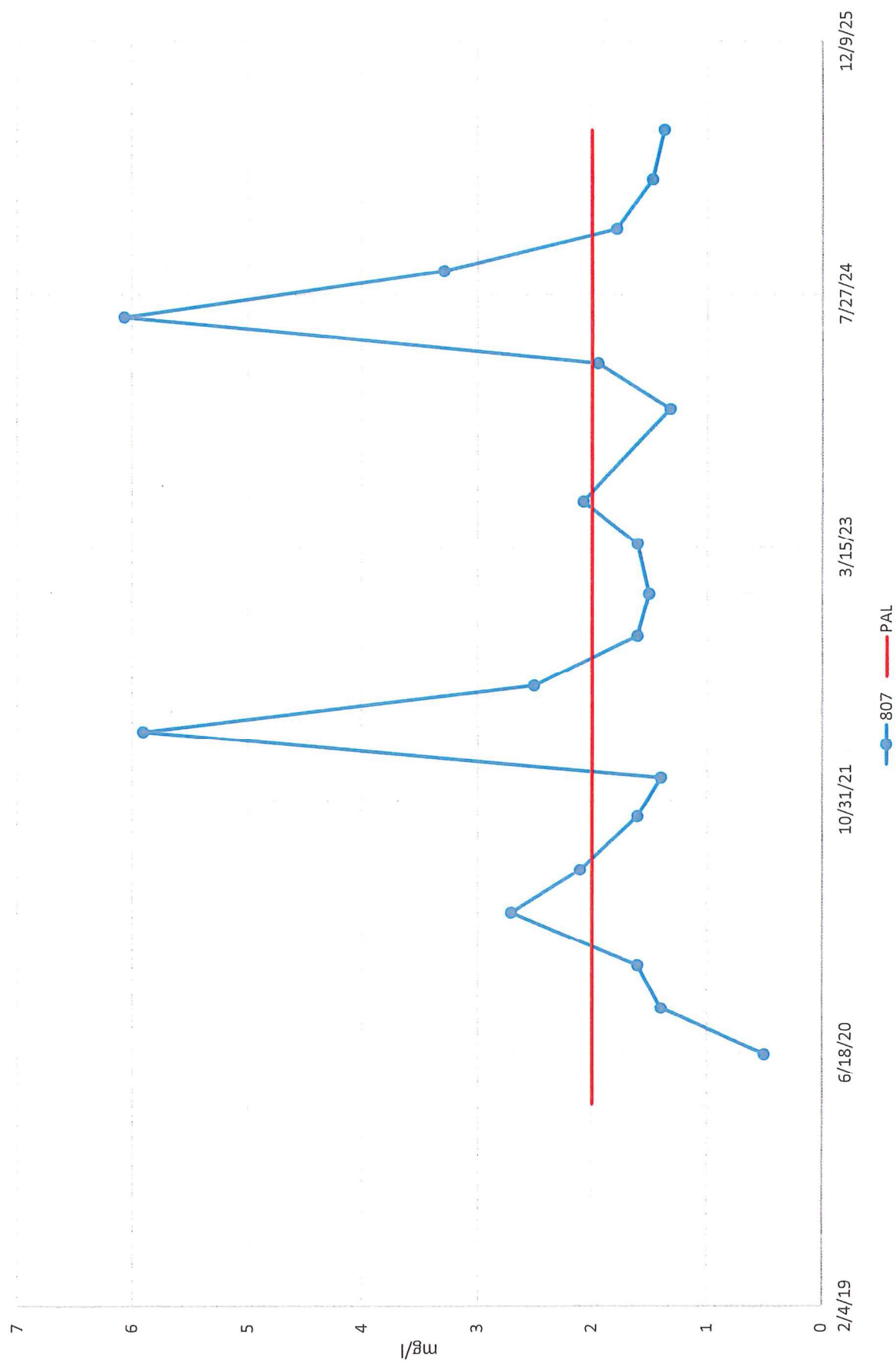
The ACL for ammonia has been recalculated. The current calculation, based on the background groundwater quality data, is less than s. NR 140.10 Wis. Adm. Code, Table 1 PAL so the Table 1 PAL will be of 0.97 mg/l will be used.

The indicator parameter PAL for TDS and the PAL range for pH have been increased based on background groundwater quality data. TDS was increased from 340 to 480 mg/l and the pH range increased from 6.2-8.2 to 6.3-8.3 su.

Compliance Schedule Recommendations

The s. NR 206.07 (2)(h) 1. Wis. Adm. Code requires a land disposal management plan for facilities with land disposal systems. The facility should review their plan within 90 days of permit reissuance and any revisions should be submitted to the department for approval.

Figure 1
Nitrite + Nitrate



Appendix

The preceding results were provided by the facility or their agent. The mean and standard deviation were calculated electronically.

well	parameter	unit	sample_date	resl result
802 802	Chloride Dissolved	mg/L	03/10/2020	50
802 802	Chloride Dissolved	mg/L	06/16/2020	44
802 802	Chloride Dissolved	mg/L	09/15/2020	53
802 802	Chloride Dissolved	mg/L	12/08/2020	58
802 802	Chloride Dissolved	mg/L	03/23/2021	46
802 802	Chloride Dissolved	mg/L	06/15/2021	62
802 802	Chloride Dissolved	mg/L	09/28/2021	52
802 802	Chloride Dissolved	mg/L	12/14/2021	64
802 802	Chloride Dissolved	mg/L	03/15/2022	43
802 802	Chloride Dissolved	mg/L	06/14/2022	55
802 802	Chloride Dissolved	mg/L	09/20/2022	45
802 802	Chloride Dissolved	mg/L	12/13/2022	42
802 802	Chloride Dissolved	mg/L	03/21/2023	83
802 802	Chloride Dissolved	mg/L	06/13/2023	58
802 802	Chloride Dissolved	mg/L	09/12/2023	46
802 802	Chloride Dissolved	mg/L	12/12/2023	66
802 802	Chloride Dissolved	mg/L	03/12/2024	59
802 802	Chloride Dissolved	mg/L	06/11/2024	2
802 802	Chloride Dissolved	mg/L	09/10/2024	43
802 802	Chloride Dissolved	mg/L	12/03/2024	56
802 802	Chloride Dissolved	mg/L	03/11/2025	45
802 802	Chloride Dissolved	mg/L	06/17/2025	63

802 802	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020	0.2
802 802	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021	0.2
802 802	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022	0.2
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022	0.3
802 802	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022	0.4
802 802	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025 <	0.1
802 802	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025 <	0.1

well	parameter	unit	sample_date	res	result
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/10/2020	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020		0.7
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021		0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022		0.6
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022		0.6
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023	<	0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023		0.3
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023		0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023		0.4
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024		0.3
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024		0.8
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024		0.6
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024		0.5
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025		0.3
802 802	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025		0.5

802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020		0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020		0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021		0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022		0.2
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022		0.2
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022	<	0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023		0.1
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023	<	0.05
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023	<	0.05
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023	<	0.05
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024		0.17
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024	<	0.02
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024	<	0.02
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024	<	0.02
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025		0.4
802 802	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025	<	0.02

well	parameter	unit	sample_date	resl result
802 802	Nitrogen, Organic Dissolved	mg/L	03/10/2020 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/16/2020 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	09/15/2020	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	12/08/2020 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	03/23/2021 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/15/2021 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	09/28/2021 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	12/14/2021 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	03/15/2022 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/14/2022 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	09/20/2022 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	12/13/2022 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	03/21/2023 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/13/2023 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	09/12/2023	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	12/12/2023 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	03/12/2024 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/11/2024	0.7
802 802	Nitrogen, Organic Dissolved	mg/L	09/10/2024	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	12/03/2024	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	03/11/2025 <	0.5
802 802	Nitrogen, Organic Dissolved	mg/L	06/17/2025	0.5

802 802	pH Field	su	03/10/2020	6.1
802 802	pH Field	su	06/16/2020	6.6
802 802	pH Field	su	09/15/2020	6.1
802 802	pH Field	su	12/08/2020	6.3
802 802	pH Field	su	03/23/2021	6.5
802 802	pH Field	su	06/15/2021	6.5
802 802	pH Field	su	09/28/2021	6.6
802 802	pH Field	su	12/14/2021	6.6
802 802	pH Field	su	03/15/2022	7.1
802 802	pH Field	su	06/14/2022	6.9
802 802	pH Field	su	09/20/2022	6.9
802 802	pH Field	su	12/13/2022	7
802 802	pH Field	su	03/21/2023	7
802 802	pH Field	su	06/13/2023	6.6
802 802	pH Field	su	09/12/2023	6.8
802 802	pH Field	su	12/12/2023	6.9
802 802	pH Field	su	03/12/2024	6.6
802 802	pH Field	su	06/11/2024	6.6
802 802	pH Field	su	09/10/2024	6.52
802 802	pH Field	su	12/03/2024	6.6
802 802	pH Field	su	03/11/2025	6.7
802 802	pH Field	su	06/17/2025	6.7

well	parameter	unit	sample_date	resl result
802 802	Solids, Total Dissolved	mg/L	03/10/2020	163
802 802	Solids, Total Dissolved	mg/L	06/16/2020	167
802 802	Solids, Total Dissolved	mg/L	09/15/2020	176
802 802	Solids, Total Dissolved	mg/L	12/08/2020	148
802 802	Solids, Total Dissolved	mg/L	03/23/2021	168
802 802	Solids, Total Dissolved	mg/L	06/15/2021	184
802 802	Solids, Total Dissolved	mg/L	09/28/2021	181
802 802	Solids, Total Dissolved	mg/L	12/14/2021	194
802 802	Solids, Total Dissolved	mg/L	03/15/2022	165
802 802	Solids, Total Dissolved	mg/L	06/14/2022	147
802 802	Solids, Total Dissolved	mg/L	09/20/2022	186
802 802	Solids, Total Dissolved	mg/L	12/13/2022	182
802 802	Solids, Total Dissolved	mg/L	03/21/2023	241
802 802	Solids, Total Dissolved	mg/L	06/13/2023	172
802 802	Solids, Total Dissolved	mg/L	09/12/2023	201
802 802	Solids, Total Dissolved	mg/L	12/12/2023	175
802 802	Solids, Total Dissolved	mg/L	03/12/2024	176
802 802	Solids, Total Dissolved	mg/L	06/11/2024	162
802 802	Solids, Total Dissolved	mg/L	09/10/2024	152
802 802	Solids, Total Dissolved	mg/L	12/03/2024	165
802 802	Solids, Total Dissolved	mg/L	03/11/2025	176
802 802	Solids, Total Dissolved	mg/L	06/17/2025	169

805 805	Chloride Dissolved	mg/L	03/10/2020	86
805 805	Chloride Dissolved	mg/L	06/16/2020	54
805 805	Chloride Dissolved	mg/L	09/15/2020	111
805 805	Chloride Dissolved	mg/L	12/08/2020	125
805 805	Chloride Dissolved	mg/L	03/23/2021	128
805 805	Chloride Dissolved	mg/L	06/15/2021	109
805 805	Chloride Dissolved	mg/L	09/28/2021	150
805 805	Chloride Dissolved	mg/L	12/14/2021	80
805 805	Chloride Dissolved	mg/L	03/15/2022	101
805 805	Chloride Dissolved	mg/L	06/14/2022	74
805 805	Chloride Dissolved	mg/L	09/20/2022	164
805 805	Chloride Dissolved	mg/L	12/13/2022	142
805 805	Chloride Dissolved	mg/L	03/21/2023	129
805 805	Chloride Dissolved	mg/L	06/13/2023	222
805 805	Chloride Dissolved	mg/L	09/12/2023	133
805 805	Chloride Dissolved	mg/L	12/12/2023	136
805 805	Chloride Dissolved	mg/L	03/12/2024	82
805 805	Chloride Dissolved	mg/L	06/11/2024	34
805 805	Chloride Dissolved	mg/L	09/10/2024	76
805 805	Chloride Dissolved	mg/L	12/03/2024	158
805 805	Chloride Dissolved	mg/L	03/11/2025	153
805 805	Chloride Dissolved	mg/L	06/17/2025	173

well	parameter	unit	sample_date	resl result
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020	1.2
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	1
805 805	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020	0.9
805 805	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020	0.9
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021	0.6
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021	0.6
805 805	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021	0.7
805 805	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021	0.4
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022	0.5
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022	0.3
805 805	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022	0.2
805 805	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022	0.4
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023	1.4
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023	1.6
805 805	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023	0.9
805 805	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023	0.6
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024	0.6
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024	0.5
805 805	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024	0.3
805 805	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024	0.4
805 805	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025	2.8
805 805	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025	3.5

805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/10/2020	1.4
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020	1
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020	1.2
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020	1.1
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021	0.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021	1
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021	1.3
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021	< 0.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022	0.8
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022	< 0.5
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022	0.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022	0.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023	1.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023	1.9
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023	1.6
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023	1.2
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024	1
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024	1.1
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024	0.6
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024	0.7
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025	3.2
805 805	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025	3.9

well	parameter	unit	sample_date	resi	result
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		0.4
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020		0.2
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021		1.5
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022		1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022		4.3
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023	<	0.1
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023	<	0.05
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023	<	0.05
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023		0.05
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024	<	0.02
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024		1.03
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024	<	0.02
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024	<	0.02
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025		0.37
805 805	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025		0.61
805 805	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	09/15/2020	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	12/08/2020	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	03/23/2021	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/15/2021	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	09/28/2021		0.6
805 805	Nitrogen, Organic Dissolved	mg/L	12/14/2021		0.5
805 805	Nitrogen, Organic Dissolved	mg/L	03/15/2022	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/14/2022	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	09/20/2022		0.7
805 805	Nitrogen, Organic Dissolved	mg/L	12/13/2022		0.5
805 805	Nitrogen, Organic Dissolved	mg/L	03/21/2023		0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/13/2023	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	09/12/2023		0.7
805 805	Nitrogen, Organic Dissolved	mg/L	12/12/2023		0.6
805 805	Nitrogen, Organic Dissolved	mg/L	03/12/2024	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/11/2024		0.6
805 805	Nitrogen, Organic Dissolved	mg/L	09/10/2024	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	12/03/2024	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	03/11/2025	<	0.5
805 805	Nitrogen, Organic Dissolved	mg/L	06/17/2025	<	0.5

well	parameter	unit	sample_date	resl result
805 805	pH Field	su	03/10/2020	6.5
805 805	pH Field	su	06/16/2020	7.1
805 805	pH Field	su	09/15/2020	6.7
805 805	pH Field	su	12/08/2020	6.7
805 805	pH Field	su	03/23/2021	6.8
805 805	pH Field	su	06/15/2021	6.7
805 805	pH Field	su	09/28/2021	6.8
805 805	pH Field	su	12/14/2021	6.7
805 805	pH Field	su	03/15/2022	7.1
805 805	pH Field	su	06/14/2022	6.9
805 805	pH Field	su	09/20/2022	6.6
805 805	pH Field	su	12/13/2022	6.8
805 805	pH Field	su	03/21/2023	7
805 805	pH Field	su	06/13/2023	6.4
805 805	pH Field	su	09/12/2023	6.7
805 805	pH Field	su	12/12/2023	6.9
805 805	pH Field	su	03/12/2024	7
805 805	pH Field	su	06/11/2024	6.2
805 805	pH Field	su	09/10/2024	7.1
805 805	pH Field	su	12/03/2024	7.1
805 805	pH Field	su	03/11/2025	7.1
805 805	pH Field	su	06/17/2025	6.3

805 805	Solids, Total Dissolved	mg/L	03/10/2020	262
805 805	Solids, Total Dissolved	mg/L	06/16/2020	216
805 805	Solids, Total Dissolved	mg/L	09/15/2020	404
805 805	Solids, Total Dissolved	mg/L	12/08/2020	338
805 805	Solids, Total Dissolved	mg/L	03/23/2021	377
805 805	Solids, Total Dissolved	mg/L	06/15/2021	307
805 805	Solids, Total Dissolved	mg/L	09/28/2021	435
805 805	Solids, Total Dissolved	mg/L	12/14/2021	284
805 805	Solids, Total Dissolved	mg/L	03/15/2022	285
805 805	Solids, Total Dissolved	mg/L	06/14/2022	225
805 805	Solids, Total Dissolved	mg/L	09/20/2022	589
805 805	Solids, Total Dissolved	mg/L	12/13/2022	449
805 805	Solids, Total Dissolved	mg/L	03/21/2023	380
805 805	Solids, Total Dissolved	mg/L	06/13/2023	597
805 805	Solids, Total Dissolved	mg/L	09/12/2023	495
805 805	Solids, Total Dissolved	mg/L	12/12/2023	440
805 805	Solids, Total Dissolved	mg/L	03/12/2024	297
805 805	Solids, Total Dissolved	mg/L	06/11/2024	281
805 805	Solids, Total Dissolved	mg/L	09/10/2024	273
805 805	Solids, Total Dissolved	mg/L	12/03/2024	457
805 805	Solids, Total Dissolved	mg/L	03/11/2025	403
805 805	Solids, Total Dissolved	mg/L	06/17/2025	510

well	parameter	unit	sample_date	resi result
806 806	Chloride Dissolved	mg/L	03/10/2020	46
806 806	Chloride Dissolved	mg/L	06/16/2020	45
806 806	Chloride Dissolved	mg/L	09/15/2020	50
806 806	Chloride Dissolved	mg/L	12/08/2020	46
806 806	Chloride Dissolved	mg/L	03/23/2021	51
806 806	Chloride Dissolved	mg/L	06/15/2021	51
806 806	Chloride Dissolved	mg/L	09/28/2021	53
806 806	Chloride Dissolved	mg/L	12/14/2021	45
806 806	Chloride Dissolved	mg/L	03/15/2022	50
806 806	Chloride Dissolved	mg/L	06/14/2022	51
806 806	Chloride Dissolved	mg/L	09/20/2022	51
806 806	Chloride Dissolved	mg/L	12/13/2022	50
806 806	Chloride Dissolved	mg/L	03/21/2023	55
806 806	Chloride Dissolved	mg/L	06/13/2023	49
806 806	Chloride Dissolved	mg/L	09/12/2023	47
806 806	Chloride Dissolved	mg/L	12/12/2023	52
806 806	Chloride Dissolved	mg/L	03/12/2024	54
806 806	Chloride Dissolved	mg/L	06/11/2024	72
806 806	Chloride Dissolved	mg/L	09/10/2024	56
806 806	Chloride Dissolved	mg/L	12/03/2024	53
806 806	Chloride Dissolved	mg/L	03/11/2025	49
806 806	Chloride Dissolved	mg/L	06/17/2025 <	2
Mean				49
St. Dev				11.603

806 806	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025 <	0.1
806 806	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025 <	0.1
Mean				0.1
St. Dev				0

well	parameter	unit	sample_date	resl result
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/10/2020 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023 <	0.5
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023 <	0.1
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023	0.1
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023 <	0.1
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024 <	0.1
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024	0.6
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024	0.2
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024	0.2
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025 <	0.1
806 806	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025 <	0.1
Mean				0.3682

806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020	0.4
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	0.3
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020	0.5
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020	0.3
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021	0.3
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021	0.3
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021	0.4
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021	0.4
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022	0.5
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022	0.7
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022	0.6
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022	0.7
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023	0.7
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023	0.75
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023	1.13
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023	0.79
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024	1.01
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024	1.03
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024	1.15
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024	0.99
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025	0.56
806 806	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025	0.04
Mean				0.6159
St. Dev				0.3005

well	parameter	unit	sample_date	res	result
806 806	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	09/15/2020	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	12/08/2020	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	03/23/2021	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/15/2021	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	09/28/2021	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	12/14/2021	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	03/15/2022	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/14/2022	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	09/20/2022	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	12/13/2022	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	03/21/2023	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/13/2023	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	09/12/2023	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	12/12/2023	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	03/12/2024	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/11/2024	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	09/10/2024	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	12/03/2024	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	03/11/2025	<	0.5
806 806	Nitrogen, Organic Dissolved	mg/L	06/17/2025	<	0.5
Mean					0.5
St. Dev					0

806 806	pH Field	su	03/10/2020		7
806 806	pH Field	su	06/16/2020		7.7
806 806	pH Field	su	09/15/2020		6.7
806 806	pH Field	su	12/08/2020		7.5
806 806	pH Field	su	03/23/2021		7.5
806 806	pH Field	su	06/15/2021		7.4
806 806	pH Field	su	09/28/2021		7.7
806 806	pH Field	su	12/14/2021		7.6
806 806	pH Field	su	03/15/2022		6.8
806 806	pH Field	su	06/14/2022		7.3
806 806	pH Field	su	09/20/2022		7.5
806 806	pH Field	su	12/13/2022		7.4
806 806	pH Field	su	03/21/2023		7.4
806 806	pH Field	su	06/13/2023		7.1
806 806	pH Field	su	09/12/2023		7.1
806 806	pH Field	su	12/12/2023		7.2
806 806	pH Field	su	03/12/2024		7.4
806 806	pH Field	su	06/11/2024		7.2
806 806	pH Field	su	09/10/2024		7.04
806 806	pH Field	su	12/03/2024		7.1
806 806	pH Field	su	03/11/2025		7.1
806 806	pH Field	su	06/17/2025		6.9
Mean					7.2564

well	parameter	unit	sample_date	resi result
806 806	Solids, Total Dissolved	mg/L	03/10/2020	265
806 806	Solids, Total Dissolved	mg/L	06/16/2020	285
806 806	Solids, Total Dissolved	mg/L	09/15/2020	278
806 806	Solids, Total Dissolved	mg/L	12/08/2020	270
806 806	Solids, Total Dissolved	mg/L	03/23/2021	260
806 806	Solids, Total Dissolved	mg/L	06/15/2021	286
806 806	Solids, Total Dissolved	mg/L	09/28/2021	289
806 806	Solids, Total Dissolved	mg/L	12/14/2021	249
806 806	Solids, Total Dissolved	mg/L	03/15/2022	253
806 806	Solids, Total Dissolved	mg/L	06/14/2022	254
806 806	Solids, Total Dissolved	mg/L	09/20/2022	321
806 806	Solids, Total Dissolved	mg/L	12/13/2022	270
806 806	Solids, Total Dissolved	mg/L	03/21/2023	291
806 806	Solids, Total Dissolved	mg/L	06/13/2023	263
806 806	Solids, Total Dissolved	mg/L	09/12/2023	305
806 806	Solids, Total Dissolved	mg/L	12/12/2023	284
806 806	Solids, Total Dissolved	mg/L	03/12/2024	274
806 806	Solids, Total Dissolved	mg/L	06/11/2024	314
806 806	Solids, Total Dissolved	mg/L	09/10/2024	290
806 806	Solids, Total Dissolved	mg/L	12/03/2024	286
806 806	Solids, Total Dissolved	mg/L	03/11/2025	272
806 806	Solids, Total Dissolved	mg/L	06/17/2025	103
			Mean	271
			St. Dev	41.014
807 807	Chloride Dissolved	mg/L	03/10/2020	92
807 807	Chloride Dissolved	mg/L	06/16/2020	218
807 807	Chloride Dissolved	mg/L	09/15/2020	80
807 807	Chloride Dissolved	mg/L	12/08/2020	48
807 807	Chloride Dissolved	mg/L	03/23/2021	67
807 807	Chloride Dissolved	mg/L	06/15/2021	61
807 807	Chloride Dissolved	mg/L	09/28/2021	40
807 807	Chloride Dissolved	mg/L	12/14/2021	29
807 807	Chloride Dissolved	mg/L	03/15/2022	64
807 807	Chloride Dissolved	mg/L	06/14/2022	122
807 807	Chloride Dissolved	mg/L	09/20/2022	38
807 807	Chloride Dissolved	mg/L	12/13/2022	28
807 807	Chloride Dissolved	mg/L	03/21/2023	39
807 807	Chloride Dissolved	mg/L	06/13/2023	54
807 807	Chloride Dissolved	mg/L	09/12/2023	2
807 807	Chloride Dissolved	mg/L	12/12/2023	28
807 807	Chloride Dissolved	mg/L	03/12/2024	40
807 807	Chloride Dissolved	mg/L	06/11/2024	55
807 807	Chloride Dissolved	mg/L	09/10/2024	72
807 807	Chloride Dissolved	mg/L	12/03/2024	44
807 807	Chloride Dissolved	mg/L	03/11/2025	39
807 807	Chloride Dissolved	mg/L	06/17/2025	51

well	parameter	unit	sample_date	resi	result
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025	<	0.1
807 807	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025	<	0.1

807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/10/2020	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020		1.8
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022		0.8
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023	<	0.5
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023	<	0.1
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023	<	0.1
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023		0.1
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024		0.2
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024		0.6
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024		0.4
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024		0.2
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025	<	0.1
807 807	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025		0.2

well	parameter	unit	sample_date	resi	result
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020	<	0.5
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		0.5
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020		1.4
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020		1.6
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021		2.7
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021		2.1
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021		1.6
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021		1.4
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022		5.9
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022		2.5
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022		1.6
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022		1.5
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023		1.6
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023		2.07
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023	<	0.05
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023		1.32
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024		1.94
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024		6.06
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024		3.28
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024		1.78
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025		1.47
807 807	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025		1.37

807 807	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	09/15/2020	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	12/08/2020		1.8
807 807	Nitrogen, Organic Dissolved	mg/L	03/23/2021	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	06/15/2021	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	09/28/2021	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	12/14/2021	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	03/15/2022		0.8
807 807	Nitrogen, Organic Dissolved	mg/L	06/14/2022	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	09/20/2022	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	12/13/2022	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	03/21/2023	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	06/13/2023	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	09/12/2023	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	12/12/2023	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	03/12/2024	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	06/11/2024		0.6
807 807	Nitrogen, Organic Dissolved	mg/L	09/10/2024	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	12/03/2024	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	03/11/2025	<	0.5
807 807	Nitrogen, Organic Dissolved	mg/L	06/17/2025	<	0.5

well	parameter	unit	sample_date	resl result
807 807	pH Field	su	03/10/2020	6.4
807 807	pH Field	su	06/16/2020	6.8
807 807	pH Field	su	09/15/2020	6.5
807 807	pH Field	su	12/08/2020	6.8
807 807	pH Field	su	03/23/2021	6.8
807 807	pH Field	su	06/15/2021	6.7
807 807	pH Field	su	09/28/2021	6.9
807 807	pH Field	su	12/14/2021	7.1
807 807	pH Field	su	03/15/2022	6.9
807 807	pH Field	su	06/14/2022	6.9
807 807	pH Field	su	09/20/2022	6.9
807 807	pH Field	su	12/13/2022	7.1
807 807	pH Field	su	03/21/2023	7
807 807	pH Field	su	06/13/2023	6.6
807 807	pH Field	su	09/12/2023	6.8
807 807	pH Field	su	12/12/2023	7
807 807	pH Field	su	03/12/2024	6.8
807 807	pH Field	su	06/11/2024	6.6
807 807	pH Field	su	09/10/2024	6.99
807 807	pH Field	su	12/03/2024	7
807 807	pH Field	su	03/11/2025	7.1
807 807	pH Field	su	06/17/2025	6.7

807 807	Solids, Total Dissolved	mg/L	03/10/2020	357
807 807	Solids, Total Dissolved	mg/L	06/16/2020	667
807 807	Solids, Total Dissolved	mg/L	09/15/2020	342
807 807	Solids, Total Dissolved	mg/L	12/08/2020	249
807 807	Solids, Total Dissolved	mg/L	03/23/2021	320
807 807	Solids, Total Dissolved	mg/L	06/15/2021	332
807 807	Solids, Total Dissolved	mg/L	09/28/2021	274
807 807	Solids, Total Dissolved	mg/L	12/14/2021	217
807 807	Solids, Total Dissolved	mg/L	03/15/2022	298
807 807	Solids, Total Dissolved	mg/L	06/14/2022	495
807 807	Solids, Total Dissolved	mg/L	09/20/2022	307
807 807	Solids, Total Dissolved	mg/L	12/13/2022	229
807 807	Solids, Total Dissolved	mg/L	03/21/2023	275
807 807	Solids, Total Dissolved	mg/L	06/13/2023	301
807 807	Solids, Total Dissolved	mg/L	09/12/2023	142
807 807	Solids, Total Dissolved	mg/L	12/12/2023	248
807 807	Solids, Total Dissolved	mg/L	03/12/2024	279
807 807	Solids, Total Dissolved	mg/L	06/11/2024	380
807 807	Solids, Total Dissolved	mg/L	09/10/2024	372
807 807	Solids, Total Dissolved	mg/L	12/03/2024	292
807 807	Solids, Total Dissolved	mg/L	03/11/2025	289
807 807	Solids, Total Dissolved	mg/L	06/17/2025	317

well	parameter	unit	sample_date	resl result
808 808	Chloride Dissolved	mg/L	06/16/2020	41
808 808	Chloride Dissolved	mg/L	09/15/2020	68
808 808	Chloride Dissolved	mg/L	12/08/2020	61
808 808	Chloride Dissolved	mg/L	03/23/2021	45
808 808	Chloride Dissolved	mg/L	06/15/2021	56
808 808	Chloride Dissolved	mg/L	09/28/2021	71
808 808	Chloride Dissolved	mg/L	12/14/2021	80
808 808	Chloride Dissolved	mg/L	03/15/2022	79
808 808	Chloride Dissolved	mg/L	06/14/2022	47
808 808	Chloride Dissolved	mg/L	09/20/2022	54
808 808	Chloride Dissolved	mg/L	12/13/2022	59
808 808	Chloride Dissolved	mg/L	03/21/2023	60
808 808	Chloride Dissolved	mg/L	06/13/2023	70
808 808	Chloride Dissolved	mg/L	09/12/2023	55
808 808	Chloride Dissolved	mg/L	12/12/2023	97
808 808	Chloride Dissolved	mg/L	03/12/2024	81
808 808	Chloride Dissolved	mg/L	06/11/2024	26
808 808	Chloride Dissolved	mg/L	09/10/2024	51
808 808	Chloride Dissolved	mg/L	12/03/2024	62
808 808	Chloride Dissolved	mg/L	03/11/2025	59
808 808	Chloride Dissolved	mg/L	06/17/2025	42

808 808	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025 <	0.1
808 808	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025 <	0.1

well	parameter	unit	sample_date	resi	result
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020		0.7
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023	<	0.5
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023	<	0.1
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023		0.4
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023		0.2
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024		0.2
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024		0.3
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024		0.3
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024		0.3
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025		0.1
808 808	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025		0.2

808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		0.2
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020		0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021		0.2
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022		0.2
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023	<	0.1
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023	<	0.05
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023		2.39
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023		0.05
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024		0.03
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024		0.06
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024	<	0.02
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024		0.07
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025		0.04
808 808	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025	<	0.02

well	parameter	unit	sample_date	resl result
808 808	Nitrogen, Organic Dissolved	mg/L	06/16/2020	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	09/15/2020	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	12/08/2020	0.7
808 808	Nitrogen, Organic Dissolved	mg/L	03/23/2021	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	06/15/2021	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	09/28/2021	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	12/14/2021	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	03/15/2022	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	06/14/2022	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	09/20/2022	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	12/13/2022	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	03/21/2023	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	06/13/2023	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	09/12/2023	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	12/12/2023	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	03/12/2024	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	06/11/2024	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	09/10/2024	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	12/03/2024	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	03/11/2025	< 0.5
808 808	Nitrogen, Organic Dissolved	mg/L	06/17/2025	< 0.5

808 808	pH Field	su	06/16/2020	6.2
808 808	pH Field	su	09/15/2020	6
808 808	pH Field	su	12/08/2020	6
808 808	pH Field	su	03/23/2021	6.4
808 808	pH Field	su	06/15/2021	6.1
808 808	pH Field	su	09/28/2021	6.4
808 808	pH Field	su	12/14/2021	6.4
808 808	pH Field	su	03/15/2022	7.7
808 808	pH Field	su	06/14/2022	6.6
808 808	pH Field	su	09/20/2022	6.3
808 808	pH Field	su	12/13/2022	7.2
808 808	pH Field	su	03/21/2023	7.4
808 808	pH Field	su	06/13/2023	6.3
808 808	pH Field	su	09/12/2023	6.5
808 808	pH Field	su	12/12/2023	6.6
808 808	pH Field	su	03/12/2024	6.7
808 808	pH Field	su	06/11/2024	6.4
808 808	pH Field	su	09/10/2024	6.8
808 808	pH Field	su	12/03/2024	6.8
808 808	pH Field	su	03/11/2025	6.8
808 808	pH Field	su	06/17/2025	6.5

well	parameter	unit	sample_date	resl result
808 808	Solids, Total Dissolved	mg/L	06/16/2020	137
808 808	Solids, Total Dissolved	mg/L	09/15/2020	166
808 808	Solids, Total Dissolved	mg/L	12/08/2020	118
808 808	Solids, Total Dissolved	mg/L	03/23/2021	102
808 808	Solids, Total Dissolved	mg/L	06/15/2021	158
808 808	Solids, Total Dissolved	mg/L	09/28/2021	188
808 808	Solids, Total Dissolved	mg/L	12/14/2021	161
808 808	Solids, Total Dissolved	mg/L	03/15/2022	165
808 808	Solids, Total Dissolved	mg/L	06/14/2022	96
808 808	Solids, Total Dissolved	mg/L	09/20/2022	176
808 808	Solids, Total Dissolved	mg/L	12/13/2022	188
808 808	Solids, Total Dissolved	mg/L	03/21/2023	195
808 808	Solids, Total Dissolved	mg/L	06/13/2023	185
808 808	Solids, Total Dissolved	mg/L	09/12/2023	369
808 808	Solids, Total Dissolved	mg/L	12/12/2023	224
808 808	Solids, Total Dissolved	mg/L	03/12/2024	186
808 808	Solids, Total Dissolved	mg/L	06/11/2024	131
808 808	Solids, Total Dissolved	mg/L	09/10/2024	146
808 808	Solids, Total Dissolved	mg/L	12/03/2024	161
808 808	Solids, Total Dissolved	mg/L	03/11/2025	154
808 808	Solids, Total Dissolved	mg/L	06/17/2025	118

809 809	Chloride Dissolved	mg/L	03/10/2020	3
809 809	Chloride Dissolved	mg/L	06/16/2020	3
809 809	Chloride Dissolved	mg/L	09/15/2020	3
809 809	Chloride Dissolved	mg/L	12/08/2020	3
809 809	Chloride Dissolved	mg/L	03/23/2021	2
809 809	Chloride Dissolved	mg/L	06/15/2021	2
809 809	Chloride Dissolved	mg/L	09/28/2021	3
809 809	Chloride Dissolved	mg/L	12/14/2021	3
809 809	Chloride Dissolved	mg/L	03/15/2022	2
809 809	Chloride Dissolved	mg/L	06/14/2022	2
809 809	Chloride Dissolved	mg/L	09/20/2022	3
809 809	Chloride Dissolved	mg/L	12/13/2022	2
809 809	Chloride Dissolved	mg/L	03/21/2023	2
809 809	Chloride Dissolved	mg/L	06/13/2023	2
809 809	Chloride Dissolved	mg/L	09/12/2023	87
809 809	Chloride Dissolved	mg/L	12/12/2023	2
809 809	Chloride Dissolved	mg/L	03/12/2024 <	2
809 809	Chloride Dissolved	mg/L	06/11/2024	2
809 809	Chloride Dissolved	mg/L	09/10/2024	2
809 809	Chloride Dissolved	mg/L	12/03/2024	2
809 809	Chloride Dissolved	mg/L	03/11/2025 <	2
809 809	Chloride Dissolved	mg/L	06/17/2025 <	2

well	parameter	unit	sample_date	resi	result
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	09/15/2020	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	12/08/2020	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/23/2021	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/15/2021	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	09/28/2021	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/15/2022	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/14/2022	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	09/20/2022	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	12/13/2022	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/13/2023	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	09/12/2023	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	12/12/2023	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/12/2024	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/11/2024	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	09/10/2024	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	12/03/2024	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	03/11/2025	<	0.1
809 809	Nitrogen, Ammonia Dissolved	mg/L	06/17/2025	<	0.1

809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/10/2020	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/16/2020	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/15/2020	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/08/2020	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/23/2021	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/15/2021	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/28/2021	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/14/2021	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/15/2022	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/14/2022	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/20/2022	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/13/2022	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/21/2023	<	0.5
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/13/2023	<	0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/12/2023		0.2
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/12/2023	<	0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/12/2024		0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/11/2024	<	0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	09/10/2024		0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	12/03/2024		0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	03/11/2025	<	0.1
809 809	Nitrogen, Total Kjeldahl Dissolved	mg/L	06/17/2025	<	0.1

well	parameter	unit	sample_date	resi result
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2020 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/08/2020 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/23/2021 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/15/2021 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/28/2021 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/15/2022 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/14/2022 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2022 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/13/2022 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023 <	0.1
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/13/2023 <	0.06
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/12/2023 <	0.05
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/12/2023	0.06
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2024	0.05
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/11/2024	0.06
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2024	0.06
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/03/2024	0.03
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/11/2025	0.05
809 809	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2025	0.04
809 809	Nitrogen, Organic Dissolved	mg/L	03/10/2020 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/16/2020 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	09/15/2020 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	12/08/2020 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	03/23/2021 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/15/2021 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	09/28/2021 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	12/14/2021 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	03/15/2022 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/14/2022 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	09/20/2022 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	12/13/2022 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	03/21/2023 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/13/2023 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	09/12/2023 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	12/12/2023 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	03/12/2024 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/11/2024 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	09/10/2024 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	12/03/2024 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	03/11/2025 <	0.5
809 809	Nitrogen, Organic Dissolved	mg/L	06/17/2025 <	0.5

well	parameter	unit	sample_date	resl result
809 809	pH Field	su	03/10/2020	6
809 809	pH Field	su	06/16/2020	6.5
809 809	pH Field	su	09/15/2020	6.4
809 809	pH Field	su	12/08/2020	6.4
809 809	pH Field	su	03/23/2021	6.5
809 809	pH Field	su	06/15/2021	6.6
809 809	pH Field	su	09/28/2021	6.5
809 809	pH Field	su	12/14/2021	6.9
809 809	pH Field	su	03/15/2022	6.5
809 809	pH Field	su	06/14/2022	6.8
809 809	pH Field	su	09/20/2022	6.7
809 809	pH Field	su	12/13/2022	7.3
809 809	pH Field	su	03/21/2023	7.1
809 809	pH Field	su	06/13/2023	6.5
809 809	pH Field	su	09/12/2023	6.9
809 809	pH Field	su	12/12/2023	6.9
809 809	pH Field	su	03/12/2024	6.9
809 809	pH Field	su	06/11/2024	6.7
809 809	pH Field	su	09/10/2024	6.82
809 809	pH Field	su	12/03/2024	6.8
809 809	pH Field	su	03/11/2025	6.8
809 809	pH Field	su	06/17/2025	6.8

809 809	Solids, Total Dissolved	mg/L	03/10/2020	118
809 809	Solids, Total Dissolved	mg/L	06/16/2020	136
809 809	Solids, Total Dissolved	mg/L	09/15/2020	119
809 809	Solids, Total Dissolved	mg/L	12/08/2020	101
809 809	Solids, Total Dissolved	mg/L	03/23/2021	106
809 809	Solids, Total Dissolved	mg/L	06/15/2021	129
809 809	Solids, Total Dissolved	mg/L	09/28/2021	135
809 809	Solids, Total Dissolved	mg/L	12/14/2021	102
809 809	Solids, Total Dissolved	mg/L	03/15/2022	120
809 809	Solids, Total Dissolved	mg/L	06/14/2022	104
809 809	Solids, Total Dissolved	mg/L	09/20/2022	137
809 809	Solids, Total Dissolved	mg/L	12/13/2022	131
809 809	Solids, Total Dissolved	mg/L	03/21/2023	120
809 809	Solids, Total Dissolved	mg/L	06/13/2023	107
809 809	Solids, Total Dissolved	mg/L	09/12/2023	236
809 809	Solids, Total Dissolved	mg/L	12/12/2023	132
809 809	Solids, Total Dissolved	mg/L	03/12/2024	114
809 809	Solids, Total Dissolved	mg/L	06/11/2024	116
809 809	Solids, Total Dissolved	mg/L	09/10/2024	117
809 809	Solids, Total Dissolved	mg/L	12/03/2024	116
809 809	Solids, Total Dissolved	mg/L	03/11/2025	126
809 809	Solids, Total Dissolved	mg/L	06/17/2025	99