

WATER SYSTEMS MGT., INC.

WSM, Inc.
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Water System Management/Operation
Wastewater System Management/Operation
Backflow Prevention Assembly Testing
Cross Connection Control Inspection
Consulting

January 28, 2025

Katy Baker-Casile
State of Idaho – DEQ
2110 Ironwood Parkway
Coeur d’Alene, ID 83814-2648

RE: ANNUAL REPORT, Bayview Water and Sewer District, WASTEWATER REUSE PERMIT, M-105-04 – Including Minor Permit Modifications No. 1 & No. 2

Dear Ms. Baker-Casile,

The following is a summary of activities at Bayview Water and Sewer District (District) municipal wastewater facilities for the period of November 1, 2023 through October 31, 2024.

The current permit, #M-105-04, was issued on July 1, 2015 and expires on July 1, 2025. M-105-04 – Modification 1 was issued on June 4, 2018. M-105-04 – Modification 2 was issued on December 31, 2018.

The District contracted with Water Systems Management, Inc. (Bob Hansen) to operate the wastewater system starting on August 16, 2017. WSM does provide appropriately licensed personnel to fulfill requirements for both responsible-charge and substitute responsible-charge operation of the Districts collection, treatment and reuse land application activities.

During this reporting period, November 1st through October 31st the District’s collection and treatment systems have been operated in substantial compliance with the current Department issued Permit. WSM continues to be retained as the District contract operating firm providing appropriately licensed operating personnel. The District remains in a pro active posture in reviewing potential system upgrades and addressing aging infrastructure.

6. Reporting Requirements

6.1.1 Due Date

The Annual Report covering the previous reporting period is being submitted as required, no later than January 31.

6.1.2 Required Contents

The Annual Report shall include the following:

Bayview Water & Sewer District
Wastewater Annual Report – 2024

1. *A brief interpretive discussion of all required monitoring data. The discussion shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.*

All monitoring data for the reporting year was consistent with previous year’s results. There were no results which would raise concerns about data quality or warrant additional validation of the results. There were no observed environmental impacts.

2. *Results of the required monitoring as described in section 5 of this permit. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Annual Report. The report shall present all monitoring data in organized data summary tables to expedite review.*

5.1.1 Constituent Monitoring

	TKN (mg/l)	Nitrate (mg/l)	Nitrite (mg/L)
April	No Irrigation		
May	No Irrigation		
June	No Irrigation		
July	No Irrigation		
August	3.19	48.9	0.024
September	4.15	44.0	0.023
October	2.98	35.8	0.039

5.1.2 Management Unit and Other Flow Monitoring

Daily flow to MU’s can be found in the attached monthly logs.

	Volume Applied (MG)		
	MU-10501	MU-10502	MU-10503
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.365	0.215	0.158
September	0.214	0.146	0.283
October	0.232	0.157	0.132

	Inches/Acre Applied		
	MU-10501	MU-10502	MU-10503
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	1.93	1.60	0.67
September	1.13	1.08	1.20
October	1.22	1.17	0.56

5.2.2 Ground Water Monitoring, Sampling, and Analyses

	Depth to Groundwater (inches)		
	GW-10501	GW-10502	GW-10503
April	No Irrigation		
May	No Irrigation		
June	No Irrigation		
July	No Irrigation		
August	76	76	56
September	76	76	56
October	76	76	56

5.3.2 Soil Monitoring, Sampling, and Analyses

	Nitrate (mg/kg)		
	SU-10501	SU-10502	SU-10503
0-12"	1.7	1.4	10.0
12-24"	1.5	2.5	6.9
24-36"	1.5	1.0	4.3

	Ammonia (mg/kg)		
	SU-10501	SU-10502	SU-10503
0-12"	1.7	2.5	1.6
12-24"	2.5	1.6	3.3
24-36"	2.0	2.2	1.0

3. Status of all work described in section 3 of this permit.

3. Compliance Schedule for Required Activities - STATUS

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-105-01	Plan of Operation (PO): The permittee shall submit for review and approval a Plan of Operation that reflects current operations and incorporates the requirements of this permit. The PO shall comply with the applicable requirements stated in IDAPA

<p>Within 6 months of permit issuance</p>	<p>58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist in the DEQ Guidance.</p> <p>The PO shall include the following site management plans or the permittee may submit the site management plans individually:</p> <ol style="list-style-type: none"> 1. Buffer zone plan; 2. Emergency operating plan; 3. Irrigation management and scheduling plan; 4. Runoff management plan <p>The PO shall be undated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.</p>
<p>STATUS: COMPLETE - The Plan of Operation (PO) was submitted to DEQ by T-O Engineers and approved.</p>	

<p>Compliance Activity (CA) Number and Completion Due Date</p>	<p>Compliance Activity Description</p>
<p>CA-105-02 Within 6 months of permit issuance</p>	<p>Quality Assurance Project Plan (QAPP): The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ.</p> <p>The QAPP shall be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following:</p> <ol style="list-style-type: none"> 1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection, and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements. 2. Maps indicating the location of each monitoring, and sampling point. 3. Qualification and training of personnel. 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report. <p>The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance.</p>

	The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.
STATUS: COMPLETE - The Quality Assurance Project Plan (QAPP) was submitted to DEQ by T-O Engineers and approved.	

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description				
CA-105-03 As specified	<p>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons;</p> <table border="1" style="margin-left: 20px;"> <tr> <td>Lagoon:</td> <td>Seepage Test Due Date:</td> </tr> <tr> <td>Storage Lagoon</td> <td>June 30, 2019</td> </tr> </table> <p>Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 42 days prior to the planned seepage test. Guidance for developing seepage test procedures are available at: http://www.deq.idaho.gov/water-quality/wastewater/lagoon-deepage-testing.aspx The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.</p> <p>Seepage tests shall be completed in accordance with the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted within 90 days after completion of the seepage test.</p> <p>For municipal lagoons, the leakage rate for lagoons constructed after April 15, 2007 shall be no more than zero point one hundred twenty-five (0.125) inches (1/8 inch) per day. The leakage rate for existing lagoons constructed prior to April 15, 2007 shall be no more than zero point twenty-five (0.25) inches (1/4 inch) per day. See IDAPA58.01.16.493.03. Requirements for lagoons leaking above the allowable amount are outlined in IDAPA 58.01.16.493.04.</p>	Lagoon:	Seepage Test Due Date:	Storage Lagoon	June 30, 2019
Lagoon:	Seepage Test Due Date:				
Storage Lagoon	June 30, 2019				
	<p>STATUS: COMPLETE - Seepage Testing, in accordance with the DEQ approved plan was initiated in 2019 and the lagoon was found to be leaking in excess of allowable limits. Testing was halted and DEQ, Mr. Chris Westerman, was notified on June 3, 2019 by Mr. Brett Converse, JUB Engineering. After numerous efforts to identify leaks in the lagoon liner, we were finally successful and repairs were made. The lagoon was seepage tested and the final seepage test results report was submitted to DEQ by Brett Converse, P.E., J-U-B Engineers on October 14, 2020, Michael Stambulis, P.E. at DEQ, acknowledged we had “satisfactorily met the requirements of the Wastewater Rules (IDAPA 58.01.16.493.03) of reuse permit M-105-04 for the storage lagoon.”</p>				
CA-105-04 By December 31, 2019	<p>Silvicultural Plan: An updated silvicultural plan for the reuse site prepared by a professional silviculturist shall be submitted to DEQ. This plan shall include the dominant vegetation species occupying the application site, estimated percentage of the application site occupied by each of the dominant species, land management activities that will maximize ET and nutrient uptake, harvesting schedules, and nutrient uptake estimates with literature references for the dominant species present. Once completed the silvicultural plan shall be implemented and included in the updated plan of operation.</p>				

STATUS: COMPLETE –The required Silvicultural Plan was completed by Shaun Hoover, Forester and William Love, Certified Forester with Inland Forest Management. The Report was submitted to Matt Plaisted, P.E., DEQ on July 24, 2020 by: Bob Hansen, WSM.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-105-05 1 year prior to permit expiration	Pre-Application Workshop: If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.
STATUS: This CA was missed	
CA-105-06 6 months prior to permit expiration	Renewal Permit Application: The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-105-05.
STATUS: This CA is currently in progress.	

4. *Results of all backflow testing, repairs, and replacements required by Section 9.1.1 of this permit.*

There are no backflow prevention assemblies at the reuse land application site.

5. *Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.*

No major maintenance took place.

6. *A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: exceedance of permit limits, complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.*

September 5 total coliform sample was over the limit of 23/100ml.

August 29 total chlorine sampling was missed.

7. *Submittal of the calculations and observations for hydraulic management units specified in the table below.*

See item 9 below.

8. *Laboratory analytical reports for monitoring specified in Section 5 of the permit. Chain of custody forms, supporting information for laboratory analytical reports and quality assurance documentation shall be available for review upon request by DEQ.*

All analytical reports are attached.

9. The parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-10501 MU-10502 MU-10503	Recycled water loading rate	Million gallons/month Inches/month
	Irrigation water requirement (IWR) for each crop grown	Inches/month Inches/GS
	Recycled water nitrogen loading rates	Pounds N/acre-year

Recycled Water Loading Rates

	Volume Applied (MG)		
	MU-10501	MU-10502	MU-10503
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.365	0.215	0.158
September	0.214	0.146	0.283
October	0.232	0.157	0.132

	Inches/Acre Applied		
	MU-10501	MU-10502	MU-10503
April	0.00	0.00	0.00
May	0.00	0.00	0.00
June	0.00	0.00	0.00
July	0.00	0.00	0.00
August	1.93	1.60	0.67
September	1.13	1.08	1.20
October	1.22	1.17	0.56

Irrigation Water Requirement

	Calculated IWR (inches/acre)		
	MU-10501	MU-10502	MU-10503
April	3.04	3.04	3.04
May	6.01	6.01	6.01
June	7.27	7.27	7.27
July	9.51	9.51	9.51
August	6.92	6.92	6.92
September	3.92	3.92	3.92
October	2.66	2.66	2.66

Growing Season Calculated IWR (in/acre)		
MU-10501	MU-10502	MU-10503
39.32	39.32	39.32

Pounds Nitrogen /Acre-Year

Pounds Nitrogen Applied/Acre-Year		
MU-10501	MU-10502	MU-10503
49.07	43.86	27.98

6.1.3 Submittals

This annual report is being submitted in accordance with:

2. Annual reports and other information required by this permit is being signed by the a duly Authorized Representative of the Responsible Official in accordance with:
 - a. The authorization is made in writing by the responsible official;
 - b. The authorization specified an individual or position having responsibility for the overall operation of the regulated facility.
 - c. The written authorization is submitted to DEQ.

As always, if you have any questions, please feel free to contact me at any time.

"I certify that the information provided in this submittal was prepared in conformance with the Quality Assurance Project Plan required by permit M-105-04, and is to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA-58.01.17.920.01 or other enforcement action as provided for under Idaho law."

Sincerely,



Bob Hansen
Bayview RCO

- c: BWSO Board, bwsd637@gmail.com
 Kyle Meschko, P.E. kmeschko@Kellerassociates.com
 Jeff Cowley, Operator, WSMI, jeff.cowley@usa.com
 Bob Kuchenski, Integrity Water Management, Inc. bob@integritywater.net

Attachments: Operation Logs, Certificates of Analysis

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - APRIL 2024

PERMIT MAX		306,670			217,920		380,481			23/100ml	AVG.	3 FEET (36")						
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2 TOT	WEEKLY	1.77	WEEKLY					
			VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)					
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6 (4.33)	#7 (4.33)		Bac-T	in.	501	502	503			
1		0																
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30		0										0.35						
31		0																
TOTAL (ZONE) GALLONS			0	0	0	0	0	0	0									
TOTAL (ZONE) ACRE INCHES			0.00	0.00	0.00	0.00	0.00	0.00	0.00									
TOTAL (MU) GALLONS			0			0		0				0.35						
TOTAL (MU) ACRE INCHES			0.00			0.00		0.00				1.42						
TOTAL NITROGEN - LBS/ACRE MONTH			0.00			0.00		0.00										
TOTAL NITROGEN - LBS/ACRE CUM. YR			0.00			0.00		0.00										

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	575,794
MU-10502 Calculated Adjusted IRW	409,160
MU-10503 Calculated Adjusted IRW	714,379

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)		MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)		

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - MAY 2024

PERMIT MAX		820,638			583,147		1,018,155			23/100ml	AVG.	3 FEET (36")						
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2 TOT	WEEKLY	2.03	WEEKLY					
			VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)					
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)		Bac-T	in.	501	502	503			
1		0																
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29		0																
30		0																
31		0																0.35
TOTAL (ZONE) GALLONS			0	0	0	0	0	0	0	0								
TOTAL (ZONE) ACRE INCHES			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
TOTAL (MU) GALLONS			0			0		0				0.35						
TOTAL (MU) ACRE INCHES			0.00			0.00		0.00				1.68						
TOTAL NITROGEN - LBS/ACRE MONTH			0.00			0.00		0.00										
TOTAL NITROGEN - LBS/ACRE CUM. YR			0.00			0.00		0.00										

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	1,139,038
MU-10502 Calculated Adjusted IRW	809,403
MU-10503 Calculated Adjusted IRW	1,413,190

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)		MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)		

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - JUNE 2024

PERMIT MAX		1,104,403			784,790		1,370,219			23/100ml	AVG.	3 FEET (36")						
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2 TOT	WEEKLY	1.89	WEEKLY					
			VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)					
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)		Bac-T	in.	501	502	503			
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29		0																
30		0										0.45						
31		0																
TOTAL (ZONE) GALLONS			0	0	0	0	0	0	0	0								
TOTAL (ZONE) ACRE INCHES			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
TOTAL (MU) GALLONS			0			0		0				0.45						
TOTAL (MU) ACRE INCHES			0.00			0.00		0.00				1.44						
TOTAL NITROGEN - LBS/ACRE MONTH			0.00			0.00		0.00										
TOTAL NITROGEN - LBS/ACRE CUM. YR			0.00			0.00		0.00										

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	1,377,317
MU-10502 Calculated Adjusted IRW	978,723
MU-10503 Calculated Adjusted IRW	1,708,820

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)		MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)		

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - July 2024

PERMIT MAX		1,652,985			1,174,614		2,050,838			23/100ml	AVG.	3 FEET (36")			
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2 TOT	WEEKLY	0.94	MONTHLY		
			VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)		
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)		Bac-T	in.	501	502	503
1		0													
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30		0													
31		0										0.15			
TOTAL (ZONE) GALLONS			0	0	0	0	0	0	0						
TOTAL (ZONE) ACRE INCHES			0.00	0.00	0.00	0.00	0.00	0.00	0.00						
TOTAL (MU) GALLONS			0			0		0				0.15			
TOTAL (MU) ACRE INCHES			0.00			0.00		0.00				0.79			
TOTAL NITROGEN - LBS/ACRE MONTH			0.00			0.00		0.00							
TOTAL NITROGEN - LBS/ACRE CUM. YR			0.00			0.00		0.00							

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	1,802,709
MU-10502 Calculated Adjusted IRW	1,281,008
MU-10503 Calculated Adjusted IRW	2,236,598

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)		MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)		

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - AUGUST 2024

PERMIT MAX		1,383,511			983,126		1,716,505			23/100ml	AVG.	3 FEET (36")				
DATE	LA-METER READING	Land Ap	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2	WEEKLY	1.02	MONTHLY			
		TOTAL VOLUME	VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)			
	10900000		#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)		TOT	Bac-T	in.	501	502	503
1	10900000	0														
2	10900000	0														
3	10900000	0														
4	10900000	0														
5	10900000	0														
6	10900000	0														
7	10929000	29,000		29,000						14						
8	10980000	51,000			51,000					21						
9	11009000	29,000				29,000				7	ND					
10	11086000	77,000					77,000			18						
11	11135000	49,000						49,000		25		0.50	76	76	56	
12	11165000	30,000							30,000	29						
13	11206000	41,000	41,000							29						
14	11206000	0														
15	11206000	0														
16	11206000	0														
17	11206000	0														
18	11206000	0														
19	11285000	79,000							79,000	14						
20	11334000	49,000	49,000							15						
21	11361000	27,000		27,000						28	ND					
22	11421000	60,000			60,000					15						
23	11462000	41,000				41,000				28						
24	11462000	0														
25	11462000	0														
26	11462000	0														
27	11462000	0								28						
28	11513000	51,000		51,000						24	ND	0.90				
29	11570000	57,000			57,000											
30	11591000	21,000				21,000				8						
31	11637000	46,000					47,000			10						
TOTAL (ZONE) GALLONS			90,000	107,000	168,000	91,000	124,000	49,000	109,000							
TOTAL (ZONE) ACRE INCHES			1.42	1.69	2.67	1.35	1.84	0.42	0.93							
TOTAL (MU) GALLONS			365,000			215,000		158,000				1.40				
TOTAL (MU) ACRE INCHES			1.93			1.60		0.67				-0.38				
TOTAL NITROGEN - LBS/ACRE MONTH			24.11			19.99		8.41								
TOTAL NITROGEN - LBS/ACRE CUM. YR			24.11			19.99		8.41								

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	1,311,492
MU-10502 Calculated Adjusted IRW	931,949
MU-10503 Calculated Adjusted IRW	1,627,152

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)	3.19	MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)	52.10	

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - SEPTEMBER 2024

PERMIT MAX		765,275			543,806		949,468			23/100ml	AVG.	3 FEET (36")				
DATE	LA-METER READING	Land Ap	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2	WEEKLY	1.18	MONTHLY			
	11637000	TOTAL VOLUME	VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)			
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6 (4.33)	#7 (4.33)		TOT	Bac-T	in.	501	502	503
1	11681000	44,000						44,000		20						
2	11758000	77,000							77,000	44						
3	11759000	1,000	1,000							44		0.80				
4	11821000	62,000		62,000						23						
5	11849000	28,000			28,000					44	130					
6	11889000	40,000				40,000				44						
7	11930000	41,000					41,000			26						
8	11957000	27,000						27,000		44						
9	12005000	48,000							48,000	44						
10	12033000	28,000	28,000							44	6.8					
11	12033000	0														
12	12033000	0														
13	12033000	0														
14	12033000	0														
15	12033000	0														
16	12033000	0														
17	12033000	0														
18	12033000	0														
19	12033000	0														
20	12033000	0														
21	12033000	0														
22	12033000	0														
23	12033000	0														
24	12033000	0														
25	12033000	0														
26	12128000	95,000			95,000					26	ND	0.50				
27	12172000	44,000				44,000				11						
28	12193000	21,000					21,000			24						
29	12233000	40,000						40,000		23						
30	12280000	47,000							47,000	9			76	76	56	
31																
TOTAL (ZONE) GALLONS			29,000	62,000	123,000	84,000	62,000	111,000	172,000							
TOTAL (ZONE) ACRE INCHES			0.46	0.98	1.95	1.25	0.92	0.94	1.46							
TOTAL (MU) GALLONS			214,000			146,000		283,000				1.30				
TOTAL (MU) ACRE INCHES			1.13			1.08		1.20				-0.12				
TOTAL NITROGEN - LBS/ACRE MONTH			13.38			12.84		14.26								
TOTAL NITROGEN - LBS/ACRE CUM. YR			37.49			32.83		22.67								

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

IRW BASED ON PRECIPITATION ADJUSTMENT

MU-10501 Calculated Adjusted IRW	742,532
MU-10502 Calculated Adjusted IRW	527,645
MU-10503 Calculated Adjusted IRW	921,251

Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)	4.15	MONTHLY
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)	48.17	

BAYVIEW WATER AND SEWER DISTRICT - WASTEWATER LAND APPLICATION LOG - OCTOBER 2024

PERMIT MAX		162,494			115,468		201,604			23/100ml	AVG.	3 FEET (36")			
DATE	LA-METER READING	Land Ap TOTAL VOLUME	MU-10501-AREA 1-6.98 Acres			MU-10502-Area 2-4.96		MU-10503-Area 3-8.66		CL2 TOT	WEEKLY	2.1	MONTHLY		
			VOLUME TO ZONE			VOLUME TO ZONE		VOLUME TO ZONE			TOTAL	PRESIP	GrndwtrDepth(in.)		
			#1 (2.33)	#2 (2.33)	#3 (2.32)	#4 (2.48)	#5 (2.48)	#6(4.33)	#7 (4.33)		Bac-T	in.	501	502	503
1	12318000	38,000	38,000						19				76	76	56
2	12340000	22,000		22,000					19						
3	12361000	21,000			21,000				13	ND					
4	12402000	41,000				41,000			20						
5	12458000	56,000					56,000		12		0.10				
6	12488000	30,000						30,000	13						
7	12534000	46,000							17						
8	12568000	34,000	34,000						14	ND					
9	12616000	48,000		48,000					21						
10	12642000	26,000			26,000				20,5						
11	12668000	26,000				26,000			20						
12	12702000	34,000					34,000		22						
13	12729000	27,000						27,000	21,5						
14	12758000	29,000							13	ND					
15	12801000	43,000	43,000						14						
16	12801000	0													
17	12801000	0													
18	12801000	0													
19	12801000	0													
20	12801000	0													
21	12801000	0									0.10				
22	12801000	0													
23	12801000	0													
24	12801000	0													
25	12801000	0													
26	12801000	0													
27	12801000	0													
28	12801000	0													
29	12801000	0													
30	12801000	0													
31	12801000	0									0.10				

TOTAL (ZONE) GALLONS	115,000	70,000	47,000	67,000	90,000	57,000	75,000								
TOTAL (ZONE) ACRE INCHES	1.82	1.11	0.75	0.99	1.34	0.48	0.64								
TOTAL (MU) GALLONS	232,000			157,000		132,000					0.30				
TOTAL (MU) ACRE INCHES	1.22			1.17		0.56					1.80				
TOTAL NITROGEN - LBS/ACRE MONTH	11.58			11.03		5.31									
TOTAL NITROGEN - LBS/ACRE CUM. YR	49.07			43.86		27.98									

NOTE: 50% of the Practical Quantitation Limits (PQL) for all ND Lab results have been added for these calculations

MONITOR SOIL FOR -Nitrate-nitrogen & - Ammonium nitrogen - October only -				IRW BASED ON PRECIPITATION ADJUSTMENT					
				MU-10501 Calculated Adjusted IRW		503,637			
Total Kjeldahl nitrogen, as N-PQL = 0.09 (0.045 @ 50%)				2.97		MU-10502 Calculated Adjusted IRW		357,885	
Nitrite+Nitrate-nitrogen, as N-PQL=0.1/ea (0.05@50%)				38.80		MONTHLY		MU-10503 Calculated Adjusted IRW	624,856

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Order No.: **2024080222**

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 08/09/2024 11:32

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 08/09/2024 08:00
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	08/11/24	WM
Temperature (Sample Received)	2.4	deg. C	Infrared		08/09/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/12/24

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Order No.: **2024080508**

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 08/21/2024 11:30

Sample: **1**
Location: Land Ap Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 08/21/2024 10:00
Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	08/23/24	RH
Temperature (Sample Received)	8.9	deg. C	Infrared		08/21/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/23/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 08/28/2024 11:50

Sample: **1** Matrix: Waste Water
Location: Land AP Tap D/T Collected: 08/28/2024 10:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	08/30/24	RH
Temperature (Sample Received)	9.3	deg. C	Infrared		08/28/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/30/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 08/21/2024 11:30

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 08/21/2024 10:00
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Nitrite-N	0.024	mg/L	EPA 300.0	0.023	08/22/24	WM
Nitrate-N	48.9	mg/L	EPA 300.0	0.024	08/22/24	WM
Total Kjeldahl Nitrogen (N)	3.19	mg/L	SM 4500NORG B	0.11	08/26/24	WM
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	52.1	mg/L	Calculation		08/26/24	WM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 08/26/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 09/05/2024 11:45

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 09/05/2024 10:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	130	MPN/100mL	SM 9221B	1.8	09/08/24	WM
Temperature (Sample Received)	8.1	deg. C	Infrared		09/05/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/09/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer

Date Received: 09/10/2024 11:50

Sample: **1** Matrix: Waste Water
Location: Land Ap Tap D/T Collected: 09/10/2024 09:00
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	6.8	MPN/100mL	SM 9221B	1.8	09/14/24	WM
Temperature (Sample Received)	4.2	deg. C	Infrared		09/10/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/16/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 09/26/2024 11:50

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 09/26/2024 10:50
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	09/29/24	WM
Temperature (Sample Received)	11.3	deg. C	Infrared		09/26/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/30/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 09/05/2024 11:45

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 09/05/2024 10:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Nitrite-N	0.023	mg/L	EPA 300.0	0.023	09/06/24	WM
Nitrate-N	44.0	mg/L	EPA 300.0	0.024	09/06/24	WM
Total Kjeldahl Nitrogen (N)	4.15	mg/L	SM 4500NORG B	0.11	09/10/24	WM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/11/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 10/03/2024 11:50

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 10/03/2024 09:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	10/05/24	WM
Temperature (Sample Received)	3.2	deg. C	Infrared		10/03/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/07/24

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Water & Sewer District

Date Received: 10/08/2024 11:37

Sample: **1**
Location: Land AP Tap
Sample Type: Grabs

Matrix: Waste Water
D/T Collected: 10/08/2024 11:00
Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	10/10/24	LN
Temperature (Sample Received)	9.5	deg. C	Infrared		10/08/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/11/24

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Order No.: **2024100330**

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 10/14/2024 11:55

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 10/14/2024 09:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Total Coliform Bacteria	ND	MPN/100mL	SM 9221B	1.8	10/16/24	LN
Temperature (Sample Received)	4.4	deg. C	Infrared		10/14/24	JM

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/16/24

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Order No.: **2024100331**

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Bayview Water & Sewer Distr.
P.O. Box 637
Bayview , ID 83803

Project: Bayview Sewer

Date Received: 10/14/2024 11:55

Sample: **1** Matrix: Waste Water
Location: Land App Tap D/T Collected: 10/14/2024 09:30
Sample Type: Grabs Collected by: Michael Kuchenski

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Nitrite-N	0.039	mg/L	EPA 300.0	0.023	10/15/24	WM
Nitrate-N	35.8	mg/L	EPA 300.0	0.024	10/15/24	WM
Total Kjeldahl Nitrogen (N)	2.97	mg/L	SM 4500NORG B	0.11	10/18/24	BK
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	38.8	mg/L	Calculation		10/19/24	BK

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/21/24

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Order No.: **2024100173**

Page: 1 of 3

Bayview Water & Sewer Distr.
P.O. Box 637
Bayview, ID 83803

Project: Bayview Water & Sewer Soil

Date Received: 10/08/2024 12:10

Sample: **1** Matrix: Soil
Location: SU-10501- 0"12" D/T Collected: 10/08/2024 08:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.7	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	1.7	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	88.67	%	SM 2540G		10/23/24	NWA

Sample: **2** Matrix: Soil
Location: SU-10501- 12"-24" D/T Collected: 10/08/2024 08:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.5	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	1.5	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	87.03	%	SM 2540G		10/23/24	NWA

Sample: **3** Matrix: Soil
Location: SU-10501- 24"-36" D/T Collected: 10/08/2024 08:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.0	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	1.5	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	86.97	%	SM 2540G		10/23/24	NWA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/24/24

Accurate Testing Labs, LLC

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Certificate of Analysis

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Sample: **4** Matrix: Soil
Location: SU-10502- 0"-12" D/T Collected: 10/08/2024 09:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.5	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	1.4	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	88.20	%	SM 2540G		10/23/24	NWA

Sample: **5** Matrix: Soil
Location: SU-10502- 12"-24" D/T Collected: 10/08/2024 09:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.6	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	2.5	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	90.21	%	SM 2540G		10/23/24	NWA

Sample: **6** Matrix: Soil
Location: SU-10502- 24"-36" D/T Collected: 10/08/2024 09:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	2.2	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	1.0	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	87.97	%	SM 2540G		10/23/24	NWA

Sample: **7** Matrix: Soil
Location: SU-10503- 0"-12" D/T Collected: 10/08/2024 10:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.6	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	10.0	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	85.16	%	SM 2540G		10/23/24	NWA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/24/24

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Sample: **8** Matrix: Soil
Location: SU-10503- 12"-24" D/T Collected: 10/08/2024 10:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	3.3	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	6.9	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	82.9	%	SM 2540G		10/23/24	NWA

Sample: **9** Matrix: Soil
Location: SU-10503- 24"-36" D/T Collected: 10/08/2024 10:00
Sample Type: Composites Collected by: Stacey Rucker

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Ammonia-N (KCl Extract)	1.0	mg/Kg	S-3.50	0.1	10/23/24	NWA
Nitrate/Nitrite-N (KCl Extract)	4.3	mg/Kg	S-3.10	0.1	10/23/24	NWA
Total Solids	76.72	%	SM 2540G		10/23/24	NWA

If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/24/24