

Hall Environmental Analysis Laboratory
 4901 Hawkins XI
 Albuquerque, NM 87109
 TEL: 505-345-4975 FAX: 505-345-4107
 E-MAIL: www.hallenvironmental.com

Client Name: TOWN OF EDGEWOOD Work Order Number: 1903658 RcpNo: 1

Received By: Isalah Ortiz 3/13/2019 2:00:00 PM
 Completed By: Isalah Ortiz 3/13/2019 2:13:14 PM
 Reviewed By: DAD 3/13/19
 (15:02)

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C? Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No NA
8. Was preservative added to bottles? Yes No NA
9. VOA vials have zero headspace? Yes No
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
15. Was client notified of all discrepancies with this order? Yes No NA

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA
- Person Notified: _____ Date: _____
 By Whom: _____
 Regarding: _____
 Client Instructions: _____

17. Cooler Information

Cooler No: 21 Condition: Good Seal Intact: Yes Seal No: _____ Seal Date: _____ Signed By: _____

16. Additional remarks:

EMM 3/13/19

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

W07: 1903658

02-Apr-19

Client: Town of Edgewood
Project: EWWTP

Sample ID: MB-43668	Batch ID: 43668	RunNo: 58390	TestCode: SM 9223B Fecal Indicator: E. coli MPN
Client ID: PBW	Analysis Date: 3/14/2019	SeqNo: 1959325	Units: MPN/100mL
Prep Date: 3/13/2019	Result: PQL	SPK value	SPK Ref Val
Analyte	Result	PQL	SPK value
E. coli	>1	1,000	

Qualifiers:

H Holding times for preparation or analysis exceeded
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
 RI Reporting Detection Limit
 W Sample container temperature is out of limit as specified in methods

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903658
02-Apr-19

Client: Town of Edgewood
Project: EWWTP

Sample ID: MB-43690	Client ID: PBW	Prep Date: 3/14/2019	Analysis Date: 3/19/2019	SeqNo: 1962583	Units: mg/L	TestCode: SM5210B: BOD	RunNo: 58478
Sample Type: BLK	Batch ID: 43690	RunNo: 58478	Result: ND	SPK value: 2.0	PQL: 2.0	SPK Ref Val: 0	%REC: 65.2
LowLimit: 84.6	HighLimit: 115.4	%RPD: 0	RPDLimit: 0	Qual: S	Analyle: Biochemical Oxygen Demand	Result: 130	PQL: 198.0

Sample ID: LCS-43690	Client ID: LCSW	Prep Date: 3/14/2019	Analysis Date: 3/19/2019	SeqNo: 1962584	Units: mg/L	TestCode: SM5210B: BOD	RunNo: 58478
Sample Type: LCS	Batch ID: 43690	RunNo: 58478	Result: 130	SPK value: 2.0	PQL: 2.0	SPK Ref Val: 0	%REC: 65.2
LowLimit: 84.6	HighLimit: 115.4	%RPD: 0	RPDLimit: 0	Qual: S	Analyle: Biochemical Oxygen Demand	Result: 130	PQL: 198.0

Qualifiers:

H Holding times for preparation of analysis specified
 POE Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
 RI Reporting Detection Limit
 W Sample container temperature is out of limit as specified in methods

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WQ#: 1903658
02-Apr-19

Client: Town of Edgewood
Project: EWWTP

Sample ID: MB	Sample Type: mbik	TestCode: EPA Method 300.0: Anions	RunNo: 58362	SeqNo: 1957805	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: PBW	Batch ID: A58362	RunNo: 58362	SeqNo: 1957805	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date:	Analysis Date: 3/13/2019	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Nitrogen, Nitrite (As N)	ND	0.10													
Nitrogen, Nitrate (As N)	ND	0.10													

Sample ID: LCS	Sample Type: lcs	TestCode: EPA Method 300.0: Anions	RunNo: 58362	SeqNo: 1957806	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: LCSW	Batch ID: A58362	RunNo: 58362	SeqNo: 1957806	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date:	Analysis Date: 3/13/2019	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.0	90	110								
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	102	90	110								

Sample ID: 1903658-001CMS	Sample Type: ms	TestCode: EPA Method 300.0: Anions	RunNo: 58362	SeqNo: 1957808	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: Effluent	Batch ID: A58362	RunNo: 58362	SeqNo: 1957808	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date:	Analysis Date: 3/13/2019	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Nitrogen, Nitrite (As N)	0.63	0.10	1.000	0	62.7	82.4	108								
Nitrogen, Nitrate (As N)	3.9	0.10	2.500	1.520	97.0	79.1	116								

Sample ID: 1903658-001CMSD	Sample Type: msd	TestCode: EPA Method 300.0: Anions	RunNo: 58362	SeqNo: 1957810	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: Effluent	Batch ID: A58362	RunNo: 58362	SeqNo: 1957810	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date:	Analysis Date: 3/13/2019	Units: mg/L	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Nitrogen, Nitrite (As N)	0.64	0.10	1.000	0	64.4	82.4	108								
Nitrogen, Nitrate (As N)	3.9	0.10	2.500	1.520	96.0	79.1	116								

Qualifiers:

H Holding time for preparation or analysis exceeded
 PQL Practical Quantitative Limit
 S Recoveries outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
 RI Reporting Detection Limit
 W Sample container temperature not at time as specified in methods

Hall Environmental Analysis Laboratory, Inc.
 Analytical Report
 Lab Order 1903658
 Date Reported: 4/2/2019

CLIENT: Town of Edgewood
 Project: EWWTTP
 Lab ID: 1903658-001

Client Sample ID: Effluent
 Collection Date: 3/13/2019 10:00:00 AM
 Matrix: AQUEOUS
 Received Date: 3/13/2019 2:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	ND	0.10		mg/L	1	3/13/2019 8:39:36 PM
Nitrogen, Nitrite (As N)	1.5	0.10		mg/L	1	3/13/2019 8:39:36 PM
Nitrogen, Nitrate (As N)						
SMS210B: BOD						
Biochemical Oxygen Demand	DO Depletion > 2.0	2.0		mg/L	1	3/19/2019 2:56:00 PM
Analyst: SMS						
SM 9223B FECAL INDICATOR: E. COLI MPN						
E. Coli	> 1	1.000		MPN/100 l	1	3/14/2019 5:05:00 PM
Analyst: pfr						

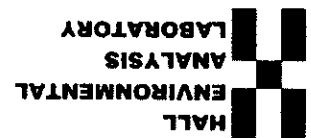
Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- II Holding times for preparation and analysis exceeded
- PQI: Percent Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- ND Not Detected in the Reporting Form
- RI Reporting Detection Limit
- W Sample contains temperature is out of limit as specified in the report

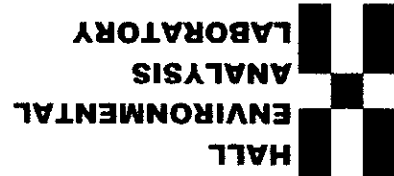
Analytical Comments Regarding BOD:
The method blank(s) had a DO depletion >0.2mg/L.

CLIENT: Town of Edgewood
Project: FW.WTP



Hall Environmental Analysis Laboratory
4901 Hawks Nest
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative
WQ#: 1903658
Date: 4/2/2019



April 02, 2019

Mike Butler

Town of Edgewood

PO Box 3610

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP

Order No.: 1903658

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/13/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact H/E/A/L for any additional information or clarifications.

ADHS Ccn #AZ0682 -- NMED-DWB Ccn #NM19425 -- NMED-Miero Ccn #NM0901

Sincerely,

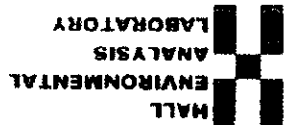
A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



111 University Ave. Ste. 100
 Durham, NC 27707
 Phone: 919.286.1111
 Fax: 919.286.1112

Sample Log-in Check List

Client Name: TOWN OF EDGEWOOD Work Order Number: 1903155

Received By: Erin Melendez

3/5/2019 11:25:00 AM

Completed By: Erin Melendez

3/5/2019 11:29:04 AM

Reviewed By: LB, VZ, JMN

Chain of Custody

1 Is Chain of Custody complete? Yes No Not Present

2 How was the sample delivered? Client

Log In

3 Was an attempt made to cool the samples? Yes No NA

4 Were all samples received at a temperature of 4°C to 6°C? Yes No NA

Samples were collected the same day and sealed.

5 Samples in proper container(s)? Yes No

6 Subgent sample volume for indicated tests? Yes No

7 Are samples (except VOA and CHCl) properly preserved? Yes No

8 Was preservative added to bottles? Yes No NA

9 VOA has zero headspace? Yes No NO VOA VAP

10 Were any sample containers received broken? Yes No

11 Does paperwork match label? Yes No

12 Are all labels correctly identified on Chain of Custody? (Note discrepancies on Chain of Custody)

13 Is it clear what analytes were requested? Yes No

14 Were all holding times able to be met? Yes No

15 Was client notified of all discrepancies with this order? (If no, notify customer for authorization)

Special Handling (if applicable)

Person Notified: _____

By Whom: _____

Date: _____

Client Instructions regarding: _____

Additional remarks: _____

17 Cooler Information

Cooler No: 1 Temp: 7.3 Condition: Good Seal Intact: Not Present Seal No: _____ Seal Date: _____ Signed By: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903165
19-Mar-19

Client: Town of Edgewater
Project: EWWTP

Sample ID	Client ID	Prep Date	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
MB-43590	PBW	3/8/2019	Nitrogen, Kjeldahl Total	ND	1.0								
Sample ID: MB-43590			Client ID: PBW			Prep Date: 3/8/2019			Analyte				
TestCode: SM 4500 Norg C: TKN			Batch ID: 43590			Analysis Date: 3/10/2019			Result				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			PQL				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			SPK value				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			SPK Ref Val				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			%REC				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			LowLimit				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			HighLimit				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			%RPD				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			RPDLimit				
RunNo: 58241			SeqNo: 1953306			Units: mg/L			Qual				

Sample ID	Client ID	Prep Date	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
LCS-43590	LCSW	3/8/2019	Nitrogen, Kjeldahl Total	10	1.0	10.00	0	102	80	120			
Sample ID: LCS-43590			Client ID: LCSW			Prep Date: 3/8/2019			Analyte				
TestCode: SM 4500 Norg C: TKN			Batch ID: 43590			Analysis Date: 3/10/2019			Result				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			PQL				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			SPK value				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			SPK Ref Val				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			%REC				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			LowLimit				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			HighLimit				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			%RPD				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			RPDLimit				
RunNo: 58241			SeqNo: 1953307			Units: mg/L			Qual				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- T Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- KL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

W0#: 1903165

19-Mar-19

Client: Town of Edgewood
Project: EW/WTP

Sample ID	Client ID	Prep Date	Analysis Date	Batch ID	RunNo	SeqNo	Units	TestCode	MOD	Total Dissolved Solids
MB-43589	PBW	3/8/2019	3/11/2019	43589	58261	1954109	mg/L	SM2540C		20.0
SampType: MBLK										
Result: ND										
PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

Sample ID	Client ID	Prep Date	Analysis Date	Batch ID	RunNo	SeqNo	Units	TestCode	MOD	Total Dissolved Solids
LCS-43589	LCSW	3/8/2019	3/11/2019	43589	58261	1954110	mg/L	SM2540C		97.5
SampType: LCS										
Result: PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recover outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

I Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

W(0#): 1903165
19-Mar-19

Client: Town of Edgewood
Project: EWWTP

Sample ID: MB-43524	Client ID: PBW	Prep Date: 3/6/2019	Analysis Date: 3/11/2019	SeqNo: 1954577	Units: mg/L	TestCode: SMS210B: BOD	RunNo: 58279		
SampleType: MBLK	Batch ID: 43524	RunNo: 58279	SeqNo: 1954577	Units: mg/L	HighLimit	%RPD	RPDLimit	Qual	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND		2.0							

Sample ID: LCS-43524	Client ID: LCSW	Prep Date: 3/6/2019	Analysis Date: 3/11/2019	SeqNo: 1954578	Units: mg/L	TestCode: SMS210B: BOD	RunNo: 58279		
SampleType: LCS	Batch ID: 43524	RunNo: 58279	SeqNo: 1954578	Units: mg/L	HighLimit	%RPD	RPDLimit	Qual	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
170		2.0	198.0	0	85.4	84.6	115.4		

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- F Analyte detected below quantitation limits
- P Sample pH Not In Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

W0#: 1903165
19-Mar-19

Client: Town of Edgewood
Project: EWWTP

Sample ID: MB	Client ID: PBW	Prep Date:	Analysis Date: 3/6/2019	SeqNo: 1951325	Units: mg/L	TestCode: EPA Method 300.0: Anions	Batch ID: R58181	RunNo: 58181	
Sample Type: mbik	Client ID: PBW	Prep Date:	Analysis Date: 3/6/2019	SeqNo: 1951325	Units: mg/L	TestCode: EPA Method 300.0: Anions	Batch ID: R58181	RunNo: 58181	
Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.50								

Sample ID: LCS	Client ID: LCSW	Prep Date:	Analysis Date: 3/6/2019	SeqNo: 1951326	Units: mg/L	TestCode: EPA Method 300.0: Anions	Batch ID: R58181	RunNo: 58181	
Sample Type: lcs	Client ID: LCSW	Prep Date:	Analysis Date: 3/6/2019	SeqNo: 1951326	Units: mg/L	TestCode: EPA Method 300.0: Anions	Batch ID: R58181	RunNo: 58181	
Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4.9	0.50	5.000	0	99.0	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1903165

Date Reported: 3/19/2019

CLIENT: Town of Edgewood

Project: EW/TP

Lab ID: 1903165-001

Matrix: AQUEOUS

Client Sample ID: Effluent

Collection Date: 3/5/2019 9:00:00 AM

Received Date: 3/5/2019 11:25:00 AM

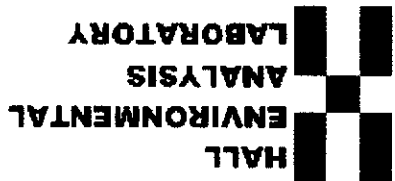
Analyses

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride	290	10	*	mg/L	20	3/6/2019 12:54:41 PM
SM5210B: BOD Biochemical Oxygen Demand	5.0	2.0	R	mg/L	1	3/11/2019 1:57:00 PM
SM9223B FECAL INDICATOR: E. COLI MPN E. Coli	< 1	1,000		MPN/100	1	3/6/2019 1:45:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS Total Dissolved Solids	1330	20.0	*	mg/L	1	3/11/2019 3:35:00 PM
SM4500 NORG C: TKN Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/10/2019 3:30:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified



March 19, 2019

Mike Butler

Town of Edgewood

PO Box 3610

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWT/P

OrderNo.: 1903165

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/5/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.halleenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cen #AZ0682 -- NMED-DWB Cen #NM9425 -- NMED-Micro Cen #NM0901

Sincerely,

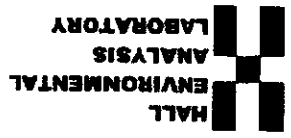
A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: TOWN OF EDGEWOOD Work Order Number: 1902311 RcpInNo: 1

Received By: Arne Thorne 2/7/2019 1:55:00 PM

Completed By: Erin Melendez 2/7/2019 2:07:21 PM

Reviewed By: vuz 2/7/19
 LB: 50 2/7/19

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present Client
- 2. How was the sample delivered?

Log In

- 3. Was an attempt made to cool the samples? Yes No NA

- 4. Were all samples received at a temperature of >0° C to 6.0° C? Yes No NA

- 5. Sample(s) in proper container(s)? Yes No

- 6. Sufficient sample volume for indicated test(s)? Yes No

- 7. Are samples (except VOA and ONG) properly preserved? Yes No NA

- 8. Was preservative added to bottles? Yes No NA

- 9. VOA vials have zero headspace? Yes No No VOA Vials

- 10. Were any sample containers received broken? Yes No

- 11. Does paperwork match bottle labels? Yes No

- 12. Are matrices correctly identified on Chain of Custody? Yes No

- 13. Is it clear what analyses were requested? Yes No

- 14. Were all holding times able to be met? Yes No

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No: 1 Temp °C: 3.9 Condition: Good Seal Intact: Not Present Seal No: _____ Seal Date: _____ Signed By: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Word: 1902311
20-Feb-19

Client: Town of Edgewood
Project: EWWTTP

Sample ID	MB	PBW	Client ID	Batch ID	RunNo	SeqNo	Units	mg/L	TestCode	EPA Method	300.0	Anions
Prep Date:				2/7/2019								
Analysis Date:				2/7/2019								
Batch ID:	R57573				57573							
RunNo:	57573											
SeqNo:	1926686											
Units:	mg/L											
TestCode:	MBLK											
EPA Method:	300.0											
Anions:												
Sample ID	MB	PBW	Client ID	Batch ID	RunNo	SeqNo	Units	mg/L	TestCode	EPA Method	300.0	Anions
Prep Date:				2/7/2019								
Analysis Date:				2/7/2019								
Batch ID:	R57573				57573							
RunNo:	57573											
SeqNo:	1926686											
Units:	mg/L											
TestCode:	MBLK											
EPA Method:	300.0											
Anions:												

Sample ID	LCS	LCSW	Client ID	Batch ID	RunNo	SeqNo	Units	mg/L	TestCode	EPA Method	300.0	Anions
Prep Date:				2/7/2019								
Analysis Date:				2/7/2019								
Batch ID:	R57573				57573							
RunNo:	57573											
SeqNo:	1926686											
Units:	mg/L											
TestCode:	LCS											
EPA Method:	300.0											
Anions:												
Sample ID <th>LCS</th> <th>LCSW</th> <th>Client ID</th> <th>Batch ID</th> <th>RunNo</th> <th>SeqNo</th> <th>Units</th> <th>mg/L</th> <th>TestCode</th> <th>EPA Method</th> <th>300.0</th> <th>Anions</th>	LCS	LCSW	Client ID	Batch ID	RunNo	SeqNo	Units	mg/L	TestCode	EPA Method	300.0	Anions
Prep Date:				2/7/2019								
Analysis Date:				2/7/2019								
Batch ID:	R57573				57573							
RunNo:	57573											
SeqNo:	1926686											
Units:	mg/L											
TestCode:	LCS											
EPA Method:	300.0											
Anions:												

Nitrogen, Nitrate (As N) 0.94 0.10 1.000 2.500 0 99.9 90 110

Nitrogen, Nitrate (As N) ND 0.10 ND 0.10

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical Quantitative Limit
 - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- I Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

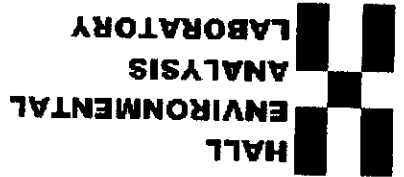
CLIENT: Town of Edgewood
 Project: FWTP
 Lab ID: 1902311-001
 Matrix: AQUEOUS
 Client Sample ID: Effluent
 Collection Date: 2/7/2019 10:00:00 AM
 Received Date: 2/7/2019 1:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	ND	0.10		mg/L	1	2/7/2019 11:42:57 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	2/7/2019 11:42:57 PM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	2/7/2019 11:42:57 PM
SM5210B: BOD						
Biochemical Oxygen Demand	2.0	2.0		mg/L	1	2/13/2019 2:07:00 PM
Analyst: SMS						
SM 9223B FECAL INDICATOR: E. COLI MPN						
E. Coli	<1	1.000		MPN/100 l	1	2/8/2019 5:36:00 PM
Analyst: SMS						

Refer to the QC Summary report and sample log-in checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- I Value above quantitation range
- J Analyte detected below quantitation limits
- K Sample pH Not in Range
- L Reporting Detection Limit
- M Sample container temperature is out of limit as specified
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NJ Not Detected at the Reporting Limit
- NI Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-578-1107
Website: www.hallenvironmental.com

February 20, 2019

Mike Butler

Town of Edgewood
PO Box 3610

Edgewood, NM 87015
TEL: (505) 228-6233

FAX

RE: EWWT/P

(OrderNo.: 1902311

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/7/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time. Please don't hesitate to contact HHEAL for any additional information or clarifications.

ADHS Cen #AZ0682 -- NMED-DWB Cen #NM9425 -- NMED-Micro Cen #NM0901

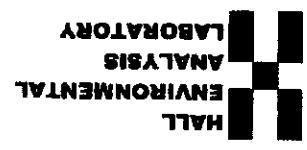
Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Rocky Mountain Water

Work Order Number: 1801C00

Recpt No: 1

Received By: Victoria Zellar

1/31/2019 4:15:00 PM

Victoria Zellar

Completed By: Desiree Dominguez

1/31/2019 4:23:11 PM

1/31/2019 @ 10:40

Reviewed By: EJM

1/31/2019

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present
- 2. How was the sample delivered? Client

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0° C? Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No NA
- 8. Was preservative added to bottles? Yes No NA
- 9. VOA vials have zero headspace? Yes No
- 10. Were any sample containers received broken? Yes No

- 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____
 By Whom: _____
 Regarding: _____
 Client Instructions: _____
 Date: _____
 Via: Email Phone Fax In Person

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Not Present			

1-31-19
 EJM

# of preserved bottles checked for pH:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
Adjusted? (<2 or >12 unless noted)	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
Checked by:	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901C00

13-Feb-19

Client: Rocky Mountain Water & Wastewater
Project: EWWTP

Sample ID: MB-42926	Client ID: PBW	Prep Date: 1/31/2019	Analysis Date: 2/1/2019	RunNo: 57435	TestCode: SM 9223B Fecal Indicator: E. coli MPN
Sample Type: MBLK	Batch ID: 42926	SeqNo: 1921159	Units: MPN/100mL	SPK Ref Val	%REC
Result	PQL	SPK value	LowLimit	HighLimit	%RPD
					RPDLimit
					Qual

E. coli < 1 1,000

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- N/D Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901C00

13-Feb-19

Client: Rocky Mountain Water & Wastewater
Project: EWWTTP

Sample ID	MB-42932	Sample Type	MBLK	Test Code	SM5210B: BOD
Client ID	PBW	Batch ID	42932	Run No	57516
Prep Date	2/1/2019	Analysis Date	2/6/2019	Seq No	1924159
Analyte	Biochemical Oxygen Demand	Result	ND	Units	mg/L
		PQL	2.0		

Sample ID	LCS-42932	Sample Type	LCS	Test Code	SM5210B: BOD
Client ID	LCSW	Batch ID	42932	Run No	57516
Prep Date	2/1/2019	Analysis Date	2/6/2019	Seq No	1924160
Analyte	Biochemical Oxygen Demand	Result	140	Units	mg/L
		PQL	2.0		
		SPK value	198.0		
		SPK Ref Val	0		
		%REC	71.2		
		LowLimit	84.6		
		HighLimit	115.4		
		%RPD			
		RPDLimit			
		Qual			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- I Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901C00

13-Feb-19

Client: Rocky Mountain Water & Wastewater
Project: EW/WTP

Sample ID	MB	Client ID	PBW	Prep Date:	Analysis Date:	SeqNo:	Units:	TestCode:	EPA Method 300.0: Anions
Sample Type:	mbik	Batch ID:	R57404	RunNo:	57404	1920684	mg/L		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.10								
Analyte: Nitrate (As N)									

Sample ID	LCS	Client ID	LCSW	Prep Date:	Analysis Date:	SeqNo:	Units:	TestCode:	EPA Method 300.0: Anions
Sample Type:	ics	Batch ID:	R57404	RunNo:	57404	1920685	mg/L		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.93	0.10	1.000	0	93.0	90	110			
Analyte: Nitrite (As N)									

Sample ID	MB	Client ID	PBW	Prep Date:	Analysis Date:	SeqNo:	Units:	TestCode:	EPA Method 300.0: Anions
Sample Type:	mbik	Batch ID:	R57441	RunNo:	57441	1921637	mg/L		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.10								
Analyte: Nitrate (As N)									

Sample ID	LCS	Client ID	LCSW	Prep Date:	Analysis Date:	SeqNo:	Units:	TestCode:	EPA Method 300.0: Anions
Sample Type:	ics	Batch ID:	R57441	RunNo:	57441	1921639	mg/L		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2.5	0.10	2.500	0	99.6	90	110			
Analyte: Nitrate (As N)									

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQI Practical (Quantitative) Limit
- S "Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- L Value above quantitation range
- I Analyte detected below quantitation limits
- P Sample pH Not in Range
- KL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1901C00

Date Reported: 2/13/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocky Mountain Water & Wastewater

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 1/31/2019 2:30:00 PM

Lab ID: 1901C00-001

Matrix: AQUEOUS

Received Date: 1/31/2019 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
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SM5210B: BOD Analyst: SMS

Biochemical Oxygen Demand

6.0 2.0 R mg/L 1 2/6/2019 2:18:00 PM 42932

NOTES:

R - % Difference between replicates were >30%

SM 9223B FECAL INDICATOR: E. COLI MPN

Analyst: plr

<1 1.000 MPN/100 1 2/1/2019 5:10:00 PM 42926

E. Coli

EPA METHOD 300.0: ANIONS

Analyst: MRA

ND 0.10 mg/L 1 1/31/2019 11:38:07 PM R57404

Nitrogen, Nitrite (As N)

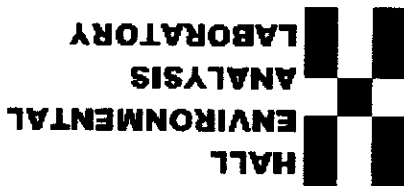
2.5 0.50 mg/L 5 2/1/2019 1:54:14 PM R57441

Nitrogen, Nitrate (As N)

Refer to the QC Summary report and sample log/in checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQI Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins VI,
Albuquerque, NM 87109
TEL: 505-845-3973 FAX: 505-845-4107
Website: www.hallenvironmental.com

February 13, 2019

Mike Butler

Rocky Mountain Water & Wastewater

49 Evening Star Loop

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: FWTP

OrderNo.: 1901C00

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/31/2019 for the

analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time. Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

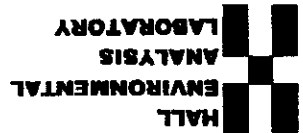
A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



Sample Log-In Check List

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3925 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Client Name: Rocky Mountain Water

Work Order Number: 1901205

Received By: Erin Melendez

1/8/2019 2:10:00 PM

Completed By: Isiah Ortiz

1/8/2019 2:23:57 PM

Reviewed By: EJM

LAB: DAD 1/8/19

U.S.
I-O-R

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present
- 2. How was the sample delivered? Client

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0° C? Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. VOA vials have zero headspace? Yes No
- 10. Were any sample containers received broken? Yes No

- 11. Does paperwork match bottle labels? Yes No
- (Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? Yes No
- (If no, notify customer for authorization.)

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____
 By Whom: _____
 Regarding: _____
 Client Instructions: _____

Date: _____
 Via: eMail Phone Fax In Person

16. Additional remarks:

17. Cooler Information

Cooler No: 1 Temp °C: 27 Condition: Good Seal Intact: Not Present Seal No: _____ Seal Date: _____ Signed By: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

24-Jan-19

1901205 WOE:

Client: Rocky Mountain Water & Wastewater
Project: EWWT

Sample ID: MB-42687	Sample Type: MBLK	TestCode: SM 4500 Norg C: TKN	Client ID: PBW	Batch ID: 42687	RunNo: 57124	SeqNo: 1911044	Units: mg/L	Result: ND	PQL: 1.0	Nitrogen, Kjeldahl, Total
Analyte										
Prep Date: 1/17/2019										
Analysis Date: 1/18/2019										
SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

Sample ID: LCS-42687	Sample Type: LCS	TestCode: SM 4500 Norg C: TKN	Client ID: LCSW	Batch ID: 42687	RunNo: 57124	SeqNo: 1911045	Units: mg/L	Result: 10	PQL: 1.0	Nitrogen, Kjeldahl, Total
Analyte										
Prep Date: 1/17/2019										
Analysis Date: 1/18/2019										
SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

Sample ID: 1901205-001CMS	Sample Type: MS	TestCode: SM 4500 Norg C: TKN	Client ID: Effluent	Batch ID: 42687	RunNo: 57124	SeqNo: 1911047	Units: mg/L	Result: 11	PQL: 1.0	Nitrogen, Kjeldahl, Total
Analyte										
Prep Date: 1/17/2019										
Analysis Date: 1/18/2019										
SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

Sample ID: 1901205-001CMSD	Sample Type: MSD	TestCode: SM 4500 Norg C: TKN	Client ID: Effluent	Batch ID: 42687	RunNo: 57124	SeqNo: 1911048	Units: mg/L	Result: 11	PQL: 1.0	Nitrogen, Kjeldahl, Total
Analyte										
Prep Date: 1/17/2019										
Analysis Date: 1/18/2019										
SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WCH: 1901205
24-Jan-19

Client: Rocky Mountain Water & Wastewater
Project: EW/WTP

Sample ID	MB-42506	Sample Type	MBLK	TestCode	SM2540C MOD: Total Dissolved Solids
Client ID	PBW	Batch ID	42506	RunNo	56910
Prep Date	1/9/2019	Analysis Date	1/10/2019	SeqNo	1904078
Analyte		Result	PQL	SPK value	SPK Ref Val
Total Dissolved Solids		ND	20.0		

Sample ID	LCS-42506	Sample Type	LCS	TestCode	SM2540C MOD: Total Dissolved Solids
Client ID	LCSW	Batch ID	42506	RunNo	56910
Prep Date	1/9/2019	Analysis Date	1/10/2019	SeqNo	1904079
Analyte		Result	PQL	SPK value	SPK Ref Val
Total Dissolved Solids		1010	20.0	1000	0
					101
					80
					120

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901205
24-Jan-19

Client: Rocky Mountain Water & Wastewater
Project: EWWT

Sample ID	Client ID	Prep Date	Analysis Date	SeqNo	Units	HighLimit	%RPD	RPDLimit	Qual
MB-42502	PBW	1/9/2019	1/14/2019	1905490	mg/L				
SampleType: MBLK		Batch ID: 42502		RunNo: 56962		TestCode: SM5210B: BOD			
Analyte: Biochemical Oxygen Demand									
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	2.0								

Sample ID	Client ID	Prep Date	Analysis Date	SeqNo	Units	HighLimit	%RPD	RPDLimit	Qual
LCS-42502	LCSW	1/9/2019	1/14/2019	1905491	mg/L				
SampleType: LCS		Batch ID: 42502		RunNo: 56962		TestCode: SM5210B: BOD			
Analyte: Biochemical Oxygen Demand									
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
130	2.0	198.0	0	66.7	84.6	115.4			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1901205
Date Reported: 1/24/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocky Mountain Water & Wastewater

Client Sample ID: Effluent

Project: EW/WTP

Collection Date: 1/8/2019 10:00:00 AM

Lab ID: 1901205-001

Matrix: AQUEOUS

Received Date: 1/8/2019 2:10:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
----------	--------	-----	------	-------	----	---------------	-------

SM5210B: BOD Biochemical Oxygen Demand 6.0 2.0 mg/L 1 1/14/2019 9:17:00 AM Analyst: MRA 42502

SM 9223B FECAL INDICATOR: E. COLI MPN E. Coli <1 1,000 MPN/100 1 1/9/2019 4:48:00 PM Analyst: plr 42499

EPA METHOD 300.0: ANIONS Chloride 500 25 mg/L * 1/18/2019 5:41:11 PM Analyst: smb R57121

SM2540C MOD: TOTAL DISSOLVED SOLIDS Total Dissolved Solids 1650 20.0 mg/L * 1/10/2019 5:54:00 PM Analyst: KS 42506

SM 4500 NOR3 C: TKN Nitrogen, Kjeldahl, Total 1.3 1.0 mg/L 1 1/18/2019 2:40:00 PM Analyst: OG 42687

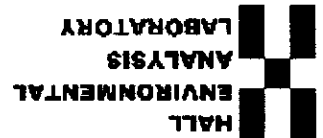
Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- F Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not in Range
- RI Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

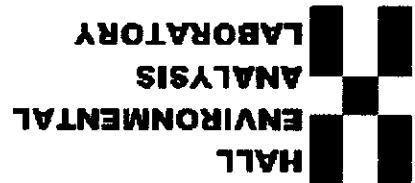
Analytical Comments Regarding BOD:
The method blank(s) had a DO depletion >0.2mg/L.

CLIENT: Rocky Mountain Water & Wastewater
Project: EW/WTP



Hall Environmental Analysis Laboratory
4901 Hawkins VE
Abingdon, VA 226109
TEL: 505-345-8975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative
WO#: 1901205
Date: 1/24/2019



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 24, 2019

Mike Butler

Rocky Mountain Water & Wastewater

49 Evening Star Loop

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP

OrderNo.: 1901205

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/8/2019 for the

analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time. Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cem #AZ0682 -- NMED-DWB Cem #NM19425 -- NMED-Micro Cem #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Notice of Violation Quarterly Update

The Town of Edgewood is continuing its efforts to correct the issues identified in the Notice of Violation issued on September 5, 2018.

1. No further unauthorized Discharge has occurred
2. The Town has requested quotes from several engineering firms for a permanent irrigation system to be used as the alternate disposal method. We hope to have some plans to submit for review and approval soon, and are anticipating doing a majority of the construction in house to keep cost down. We anticipate completion by the December 31, 2019 deadline.

3. The Town has constructed a temporary drying bed using pond liner leftover from the construction of the effluent storage pond, we have received capital outlay funds to address a permanent impervious surface, and are requesting bids for design/construct within the next 30 days. We anticipate meeting the December 31, 2019 deadline.
4. The Town has maintained two feet of freeboard, and we will follow the procedure outlined in condition 40 should the need arise.
5. The stockpiled sludge has been removed and confirmatory soil samples submitted.
6. The Town has corrected deficiencies in reporting and will continue to submit all required information.

Thank you for your continued help and understanding in these matters, I look forward to resolving these issues in accordance with the approved timelines. Please let me know if you need anything else.

Sincerely

Mike Butler

Chief Plant Operator

Town of Edgewood, Wastewater Department

Town of Edgewood Quarterly Report
 Mike Butler
 Chief Plant Operator
 (505) 228-6233

Edgewood Wastewater Treatment Facility
 Discharge Permit #1654

Monthly Flow Data Report

Date	Influent Wastewater Meter Reading	Total Inlet Gal. Received & Treated/mo	Average GPD per month	Peak Daily GPD per month	Treated Effluent Q to Lagoon gal/mo*	Treated Effluent Q Re-used^ gal/mo	Sludge Wasting in Gallons	Comments
4/2/18	56310098	#	26,262	36,800	778,064	334,700	19,689	Between 4/3-4/4 lightning strike seems to have damaged meter
5/1/18	289026 #	#	29784	39,700	895,030	204,595	21,667	
6/1/18	295594	#	31,340	52,400	1,026,775	2,811,927	12,144^	^ 6/29 7000gal pumped offsite #new meter has been ordered, it has affected the influent wastewater meter reading and total inlet gal received and treated monthly numbers
7/1/18	298620#	#	37,400	61,400	942,588	1,843,556	8,063	7/13 Used pump truck to remove 3500 gal due to belt press being rebuilt. 7/24 Damaged to remaining blower caused plant to shut down. Brought out tanker truck to remove 19,500 gal. New blower installed same day.
8/1/18	300468#	#	36,100	52,500	1,021,808	508,519	21,740	
9/1/18	303743#	#	34,400	54,300	944,841	258,089	7,369	
10/1/18	305442#	#	35,900	47,600	1,146,665	271,059	25,280	
11/1/18	307214#	#	33,600	38,900	1,084,366	209,234	6,675	
12/1/18	308645#	#	32,500	42,900	827,356	106,539	11,397	
1/1/19	311055#	#	35,191	38,800	1,090,913	140,110	23,821	
2/1/19	313721#	#	27,227	37,800	762,346	137,135	10,796	
3/1/19	315948#	#	27,943	39,300	866,247	335,198	16,339	

*To calculate the flow to the lagoon for re-use: Permeate meter difference minus (utility meter difference minus UV Recirculation meter difference). ^ Quantity based on "Re-Use" meter readings located on discharge of evaporation pond.

Town of Edgewood Quarterly Report
Mike Butler

Chief Plant Operator
(505) 228-6233

Edgewood Wastewater Treatment Facility
Discharge Permit #1654

1st quarter 2019 Report

MBR Discharge

Date	TKN	NO3	BOD5 Ave./Max.	NTU Ave./Max.	Fecal cfu Mean/Max.	UV % Trans. Range	Comments
April-18	2.5		4	1.8/4.7	<1	0*	1250 mg/L TDS, 310 mg/L Chlorides
May-18		1.7	7	1.2/3.2	<1	0*	
June-18	8.3		5	2.5/10.6	<1	0*	1230 mg/L TDS, 350 mg/L Chlorides
July-18		.32	2	6/14.4	<1	0*	
Aug-18	1.5		2	7/14.1	>100	0*	1100 mg/L TDS, 230 mg/L Chlorides
Sept-18		.32	12	8/24.5	<1	0*	
Oct-18		.32	2.0/12	2.445/19.218	<1	0*	1070 mg/L TDS, 200 mg/L Chlorides
Nov-18	1.1		<2	4.962/16.25	<1	0*	
Dec-18		1.4	6.7	2.55/14.912	<1	0*	
Jan-19	1.3	2.5	6.0	2.52/12.99	<1	0*	1650 mg/l TDS, 500 mg/l Chlorides
Feb-19			2.0	4.46/17.52	<1	0*	
Mar-19	ND	1.5	2.0/5.0	2.79/22.80	<1	0*	1330 mg/l TDS, 200 mg/l Chlorides

1.90 mg/L TN running annual average discharged

5.475 mg/L BOD running annual average discharged

Discharge limit: <10mg/L TN, 5 cfu/100 mg/L Fecal 30 day Mean (23 cfu/100 mg/L max), 10 mg/L BOD 30 day Ave (15 mg/L max), 3 NTU 30 day Ave (5 NTU max), 20.6.2.3013 NMAC sample group annually

***UV not functioning, using Chlorination**