



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

February 23, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX (575) 762-1642

RE: EWWTP

OrderNo.: 1701A55

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/25/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 16, 2017.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** EPCOR Water**Client Sample ID:** Effluent**Project:** EWWTP**Collection Date:** 1/25/2017 11:00:00 AM**Lab ID:** 1701A55-001**Matrix:** AQUEOUS**Received Date:** 1/25/2017 2:55:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SM5210B: BOD</b>						Analyst: <b>SMS</b>
Biochemical Oxygen Demand	DO Depletion<2.0	2.0		mg/L	1	1/31/2017 11:37:00 AM
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>						Analyst: <b>tnc</b>
E. Coli	<1	1.000		CFU/100ml	1	1/26/2017 4:43:00 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1701A55

23-Feb-17

**Client:** EPCOR Water  
**Project:** EWWTP

Sample ID	<b>MB-29898</b>	SampType:	<b>MBLK</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>29898</b>	RunNo:	<b>40513</b>					
Prep Date:	<b>1/26/2017</b>	Analysis Date:	<b>1/31/2017</b>	SeqNo:	<b>1269552</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	<b>MB-29898</b>	SampType:	<b>MBLK</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>29898</b>	RunNo:	<b>40513</b>					
Prep Date:	<b>1/26/2017</b>	Analysis Date:	<b>1/31/2017</b>	SeqNo:	<b>1269553</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	<b>LCS-29898</b>	SampType:	<b>LCS</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>29898</b>	RunNo:	<b>40513</b>					
Prep Date:	<b>1/26/2017</b>	Analysis Date:	<b>1/31/2017</b>	SeqNo:	<b>1269554</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	200	2.0	198.0	0	102	59.3	123			

Sample ID	<b>LCSD-29898</b>	SampType:	<b>LCSD</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>LCSS02</b>	Batch ID:	<b>29898</b>	RunNo:	<b>40513</b>					
Prep Date:	<b>1/26/2017</b>	Analysis Date:	<b>1/31/2017</b>	SeqNo:	<b>1269555</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	130	2.0	198.0	0	64.5	59.3	123	44.7	29.9	R

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701A55

23-Feb-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-29893	SampType:	MBLK	TestCode:	SM 9223B Fecal Indicator: E. coli MPN					
Client ID:	PBW	Batch ID:	29893	RunNo:	40327					
Prep Date:	1/25/2017	Analysis Date:	1/26/2017	SeqNo:	1264095	Units:	CFU/100ml			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

**Sample Log-In Check List**

Client Name: EPCOR WATER

Work Order Number: 1701A55

RcptNo: 1

Received by/date: AS 1/25/17

Logged By: Andy Jansson 1/25/2017 2:55:00 PM OH/PCW

Completed By: Andy Jansson 1/25/17

Reviewed By: RJ 01/25/17 @ 1555

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

- 16. 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: \_\_\_\_\_

17. Additional remarks:

**18. Cooler information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.5	Not Good	Not Present			

# Chain-of-Custody Record

Turn-Around Time:

Standard  Rush

Project Name:

EWWTTP

Project #:

Project Manager:

Mike Butler

Sampler:

M. Butler

On Ice:

Sample Temperature:

Container Type and #

Preservative Type

HEAL No.

V101455

-001

Date Time Matrix Sample Request ID

5/17 1100

Effluent

Date Time

5/17 1455

Relinquished by:

*[Signature]*

Received by:

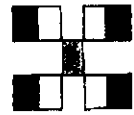
*[Signature]* 1/25/17 1455

Date Time

Relinquished by:

Received by:

Remarks:



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

<input type="checkbox"/>	BTEX + MTBE + TMB's (8021)
<input type="checkbox"/>	BTEX + MTBE + TPH (Gas only)
<input type="checkbox"/>	TPH 8015B (GRO / DRO / MRO)
<input type="checkbox"/>	TPH (Method 418.1)
<input type="checkbox"/>	EDB (Method 504.1)
<input type="checkbox"/>	PAH's (8310 or 8270 SIMS)
<input type="checkbox"/>	RCRA 8 Metals
<input type="checkbox"/>	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
<input type="checkbox"/>	8081 Pesticides / 8082 PCB's
<input type="checkbox"/>	8260B (VOA)
<input type="checkbox"/>	8270 (Semi-VOA)
<input type="checkbox"/>	F BOD
<input type="checkbox"/>	F EOL, E KM
<input type="checkbox"/>	Air Bubbles (Y or N)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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March 07, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1702A67

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/23/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



Hall Environmental Analysis Laboratory  
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Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

## Case Narrative

WO#: 1702A67  
Date: 3/7/2017

---

CLIENT: EPCOR Water  
Project: EWWTP

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



**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: EPCOR Water  
 Project: EWWTP  
 Lab ID: 1702A67-001

Matrix: AQUEOUS

Client Sample ID: Effluent  
 Collection Date: 2/23/2017 12:00:00 PM  
 Received Date: 2/23/2017 2:52:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM5210B: BOD</b>							Analyst: tnc
Biochemical Oxygen Demand	DO Depletion <2.0	2.0		mg/L	1	3/1/2017 1:23:00 PM	30380
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>							Analyst: tnc
E. Coli	<1	1.000		MPN/100mL	1	2/24/2017 4:42:00 PM	30374

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A67

07-Mar-17

Client: EPCOR Water

Project: EWWTP

Sample ID	<b>MB-30380</b>	SampType:	<b>MBLK</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>30380</b>	RunNo:	<b>41085</b>					
Prep Date:	<b>2/24/2017</b>	Analysis Date:	<b>3/1/2017</b>	SeqNo:	<b>1286989</b> Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	<b>MB-30380</b>	SampType:	<b>MBLK</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>30380</b>	RunNo:	<b>41085</b>					
Prep Date:	<b>2/24/2017</b>	Analysis Date:	<b>3/1/2017</b>	SeqNo:	<b>1286990</b> Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	<b>LCS-30380</b>	SampType:	<b>LCS</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>30380</b>	RunNo:	<b>41085</b>					
Prep Date:	<b>2/24/2017</b>	Analysis Date:	<b>3/1/2017</b>	SeqNo:	<b>1286991</b> Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	150	2.0	198.0	0	75.0	59.3	123			

Sample ID	<b>LCSD-30380</b>	SampType:	<b>LCSD</b>	TestCode:	<b>SM5210B: BOD</b>					
Client ID:	<b>LCSS02</b>	Batch ID:	<b>30380</b>	RunNo:	<b>41085</b>					
Prep Date:	<b>2/24/2017</b>	Analysis Date:	<b>3/1/2017</b>	SeqNo:	<b>1286992</b> Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	140	2.0	198.0	0	69.2	59.3	123	8.05	29.9	

**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
- R RPD outside accepted recovery limits
- 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#: 1702A67

07-Mar-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-30374	SampType:	MBLK	TestCode:	SM 9223B	Fecal Indicator:	E. coli	MPN		
Client ID:	PBW	Batch ID:	30374	RunNo:	40988					
Prep Date:	2/23/2017	Analysis Date:	2/24/2017	SeqNo:	1283706	Units:	MPN/100mL			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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



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: EPCOR-EDGEWOOD

Work Order Number: 1702A67

RcptNo: 1

Received by/date: act 02/23/17

Logged By: Andy Jansson 2/23/2017 2:52:00 PM act

Completed By: Andy Jansson 02/23/17

Reviewed By: ZEO 02/23/17

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

- 16. 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: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.8	Good	Not Present			

# Chain-of-Custody Record

Client: Epcor Waters

Mailing Address: PO BOX 370

Edgewater NM 87015  
 Phone#: 505-228-6233

email or Fax#: m.butler@epcor.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Project Manager:

Mike Butler

Sampler:

M. Butler

Sample Temperature: 10.5

Date: 12/17/07 Matrix: W Sample Request ID: 67 Effluent

Container Type and #

Preservative Type: -001

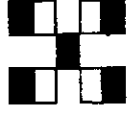
Turn-Around Time:

Standard  Rush

Project Name:

EWWTP

Project #:



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	X BOD	X Fcol, FNUM	Air Bubbles (Y or N)
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Remarks:

Received by: Am... Date: 02/23/17

Relinquished by: [Signature] Date: 1/4/82

Date: 1-23-17 Time: 149

Date: \_\_\_\_\_ Time: \_\_\_\_\_





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

April 06, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1703C25

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



Hall Environmental Analysis Laboratory  
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Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

## Case Narrative

WO#: 1703C25  
Date: 4/6/2017

---

CLIENT: EPCOR Water  
Project: EWWTP

---

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



**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EPCOR Water  
**Project:** EWWTP  
**Lab ID:** 1703C25-001

**Client Sample ID:** Effluent  
**Collection Date:** 3/23/2017 10:30:00 AM  
**Received Date:** 3/23/2017 2:55:00 PM

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM5210B: BOD</b>							Analyst: <b>SMS</b>
Biochemical Oxygen Demand	DO Depletion<2.0	2.0		mg/L	1	3/29/2017 2:07:00 PM	30896
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>							Analyst: <b>trc</b>
E. Coli	<1	1.000		MPN/100mL	1	3/24/2017 5:10:00 PM	30875
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	750	25	*	mg/L	50	3/27/2017 11:02:52 PM	A41694
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	2090	40.0	*D	mg/L	1	3/31/2017 4:08:00 PM	30994
<b>SM 4500 NORG C: TKN</b>							Analyst: <b>CJS</b>
Nitrogen, Kjeldahl, Total	4.3	1.0		mg/L	1	3/30/2017 10:00:00 AM	30958

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

<b>Qualifiers:</b> * 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 R RPD outside accepted recovery limits 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
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C25  
06-Apr-17

**Client:** EPCOR Water  
**Project:** EWWTP

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A41694</b>		RunNo: <b>41694</b>							
Prep Date:	Analysis Date: <b>3/27/2017</b>		SeqNo: <b>1308322</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A41694</b>		RunNo: <b>41694</b>							
Prep Date:	Analysis Date: <b>3/27/2017</b>		SeqNo: <b>1308323</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	95.0	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
- R RPD outside accepted recovery limits
- 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#: 1703C25

06-Apr-17

Client: EPCOR Water  
Project: EWWTP

Sample ID	MB-1-30896	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	30896	RunNo:	41776					
Prep Date:	3/24/2017	Analysis Date:	3/29/2017	SeqNo:	1311347	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-2-30896	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	30896	RunNo:	41776					
Prep Date:	3/24/2017	Analysis Date:	3/29/2017	SeqNo:	1311348	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-30896	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	30896	RunNo:	41776					
Prep Date:	3/24/2017	Analysis Date:	3/29/2017	SeqNo:	1311349	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	210	2.0	198.0	0	104	46.8	115			

Sample ID	LCSD-30896	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	30896	RunNo:	41776					
Prep Date:	3/24/2017	Analysis Date:	3/29/2017	SeqNo:	1311350	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	190	2.0	198.0	0	95.7	46.8	115	8.59	30.1	

Sample ID	1703C25-001ADUP	SampType:	DUP	TestCode:	SM5210B: BOD					
Client ID:	Effluent	Batch ID:	30896	RunNo:	41776					
Prep Date:	3/24/2017	Analysis Date:	3/29/2017	SeqNo:	1311352	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	Detention < 2.0	2.0						0	20	

**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
- R RPD outside accepted recovery limits
- 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#: 1703C25

06-Apr-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-30875	SampType:	MBLK	TestCode:	SM 9223B Fecal Indicator: E. coli	MPN				
Client ID:	PBW	Batch ID:	30875	RunNo:	41668					
Prep Date:	3/23/2017	Analysis Date:	3/24/2017	SeqNo:	1307415	Units: MPN/100mL				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
E. Coli	<1	1.000								

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C25

06-Apr-17

**Client:** EPCOR Water

**Project:** EWWTP

Sample ID <b>MB-30994</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>30994</b>	RunNo: <b>41814</b>								
Prep Date: <b>3/30/2017</b>	Analysis Date: <b>3/31/2017</b>	SeqNo: <b>1312561</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID <b>LCS-30994</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>30994</b>	RunNo: <b>41814</b>								
Prep Date: <b>3/30/2017</b>	Analysis Date: <b>3/31/2017</b>	SeqNo: <b>1312562</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	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
- R RPD outside accepted recovery limits
- 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#: 1703C25

06-Apr-17

**Client:** EPCOR Water

**Project:** EWWTP

Sample ID <b>MB-30958</b>	SampType: <b>MBLK</b>		TestCode: <b>SM 4500 Norg C: TKN</b>							
Client ID: <b>PBW</b>	Batch ID: <b>30958</b>		RunNo: <b>41766</b>							
Prep Date: <b>3/29/2017</b>	Analysis Date: <b>3/30/2017</b>		SeqNo: <b>1311135</b>				Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID <b>LCS-30958</b>	SampType: <b>LCS</b>		TestCode: <b>SM 4500 Norg C: TKN</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>30958</b>		RunNo: <b>41766</b>							
Prep Date: <b>3/29/2017</b>	Analysis Date: <b>3/30/2017</b>		SeqNo: <b>1311136</b>				Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

**Qualifiers:**

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

**Sample Log-In Check List**

Client Name: EPCOR-EDGEWOOD

Work Order Number: 1703C25

RcptNo: 1

Received by/date: AG 03/23/17

Logged By: Lindsay Mangin

3/23/2017 2:55:00 PM

*Judy Mayo*

Completed By: Lindsay Mangin

3/23/2017 3:19:14 PM

*Judy Mayo*

Reviewed By: AG

03/23/17

@ 1554

**Chain of Custody**

1. Custody seals intact on sample bottles? Yes  No  Not Present
2. Is Chain of Custody complete? Yes  No  Not Present
3. How was the sample delivered? Client

**Log In**

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

# of preserved bottles checked for pH: 2 or >12 unless noted  
 Adjusted? No  
 Checked by: AG

**Special Handling (if applicable)**

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

Person Notified:		Date	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.9	Good	Not Present			

# Chain-of-Custody Record

Client: Eplos Water  
 Mailing Address: PO BOX 370  
Edgewood NM 87015  
 Phone #: 505-228-6233  
 email or Fax#: Mbutter@eplos.com  
 QA/QC Package:  Standard  Level 4 (Full Validation)  Other  
 Accreditation:  NELAP  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush

Project Name:  
EWWTTP

Project #:

Project Manager:

Mike Butler

Sampler:

M. Butler

Date Time Matrix Sample Request ID

3/23/17 10:30 AQ Effluent

Container Type and #

-001

Preservative Type

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 80158 (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Sem-VOA)	
X BOD	
X Ecol. Enzym	
X TDS / I	
X TKN	
Air Bubbles (Y or N)	

## Analysis Request

Remarks:

Received by: [Signature] Date: 03/23/17 Time: 14:55

Reacquired by: [Signature] Date: 03/23/17 Time: 14:55

Date: 3-23-17 Time: 1455

Date: 3-23-17 Time: 1455

If necessary, samples submitted to Hill Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107





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

April 10, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1703D37

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/27/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

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](http://www.hallenvironmental.com)

## Case Narrative

WO#: 1703D37

Date: 4/10/2017

---

**CLIENT:** EPCOR Water  
**Project:** EWWTP

---

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EPCOR Water  
**Project:** EWWTP  
**Lab ID:** 1703D37-001

**Matrix:** AQUEOUS

**Client Sample ID:** Effluent  
**Collection Date:** 3/27/2017 10:30:00 AM  
**Received Date:** 3/27/2017 2:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM5210B: BOD</b>							Analyst: <b>SMS</b>
Biochemical Oxygen Demand	DO Depletion<2.0	2.0		mg/L	1	4/3/2017 1:26:00 PM	30951
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>							Analyst: <b>SMS</b>
E. Coli	<1	1.000		MPN/100mL	1	3/28/2017 4:25:00 PM	30927
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	3/27/2017 8:38:50 PM	R41697
Nitrogen, Nitrate (As N)	8.0	0.10		mg/L	1	3/27/2017 8:38:50 PM	R41697

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D37

10-Apr-17

**Client:** EPCOR Water  
**Project:** EWWTP

Sample ID	<b>MB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>R41697</b>	RunNo:	<b>41697</b>					
Prep Date:		Analysis Date:	<b>3/27/2017</b>	SeqNo:	<b>1308549</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID	<b>LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>R41697</b>	RunNo:	<b>41697</b>					
Prep Date:		Analysis Date:	<b>3/27/2017</b>	SeqNo:	<b>1308550</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.6	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.2	90	110			

Sample ID	<b>1703D37-001CMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>Effluent</b>	Batch ID:	<b>R41697</b>	RunNo:	<b>41697</b>					
Prep Date:		Analysis Date:	<b>3/27/2017</b>	SeqNo:	<b>1308576</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.87	0.10	1.000	0	87.1	76.7	103			

Sample ID	<b>1703D37-001CMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>Effluent</b>	Batch ID:	<b>R41697</b>	RunNo:	<b>41697</b>					
Prep Date:		Analysis Date:	<b>3/27/2017</b>	SeqNo:	<b>1308577</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.87	0.10	1.000	0	87.4	76.7	103	0.275	20	

**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
- R RPD outside accepted recovery limits
- 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#: 1703D37

10-Apr-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-30951	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	30951	RunNo:	41919					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1316417	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-30951	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	30951	RunNo:	41919					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1316418	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-30951	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	30951	RunNo:	41919					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1316419	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	190	2.0	198.0	0	93.7	46.8	115			

Sample ID	LCSD-30951	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	30951	RunNo:	41919					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1316420	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	130	2.0	198.0	0	67.7	46.8	115	32.2	30.1	R

### 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
- R RPD outside accepted recovery limits
- 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#: 1703D37

10-Apr-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-30927	SampType:	MBLK	TestCode:	SM 9223B	Fecal Indicator:	E. coli	MPN		
Client ID:	PBW	Batch ID:	30927	RunNo:	41809					
Prep Date:	3/27/2017	Analysis Date:	3/28/2017	SeqNo:	1312473	Units:	MPN/100mL			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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



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: EPCOR-EDGEWOOD

Work Order Number: 1703D37

RptNo: 1

Received by/date: [Signature] 3/27/17

Logged By: Lindsay Mangin 3/27/2017 2:15:00 PM [Signature]

Completed By: Lindsay Mangin 3/27/2017 2:27:50 PM [Signature]

Reviewed By: [Signature] 3/27/17 @ 1530

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH: 1  
 (2 or >12 unless noted)  
 Adjusted? NO  
 Checked by: ENM

### Special Handling (if applicable)

- 16. 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: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.6	Good	Not Present			

# Chain-of-Custody Record

Client: Exxon Water

Mailing Address: PO BOX 370  
Edgewood NM 87015  
 Phone #: 505-228-6233  
 email or Fax: mbull@exxon.com

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation  NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:  Standard  Rush

Project Name: EWWTTP

Project #: \_\_\_\_\_

Project Manager: Mike Butler

Sampler: M. Butler

Container Type and # \_\_\_\_\_

Preservative Type \_\_\_\_\_

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	X BOD	X Feed. Enzym	X NO <sub>2</sub> / NO <sub>3</sub>	Air Bubbles (Y or N)
3/27	1030		Effluent																	

Relinquished by: \_\_\_\_\_

Date: 3/27 Time: 1415

Relinquished by: \_\_\_\_\_

Date: 3/27 Time: 1415

Received by: (Signature) Date: 3/27 Time: 1415

Received by: (Signature) Date: 3/27 Time: 1415

Remarks: \_\_\_\_\_





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

April 28, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1704796

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/18/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 4/18/2017 11:00:00 AM

Lab ID: 1704796-001

Matrix: AQUEOUS

Received Date: 4/18/2017 2:45:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM5210B: BOD</b>							Analyst: SMS
Biochemical Oxygen Demand	DO Depletion<2.0	2.0		mg/L	1	4/24/2017 12:12:00 PM	31306
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>							Analyst: tnc
E. Coli	<1	1.000		MPN/100mL	1	4/19/2017 5:00:00 PM	31305

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
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704796

28-Apr-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-31306	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	31306	RunNo:	42371					
Prep Date:	4/19/2017	Analysis Date:	4/24/2017	SeqNo:	1332167	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-31306	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	31306	RunNo:	42371					
Prep Date:	4/19/2017	Analysis Date:	4/24/2017	SeqNo:	1332168	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-31306	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	31306	RunNo:	42371					
Prep Date:	4/19/2017	Analysis Date:	4/24/2017	SeqNo:	1332169	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	140	2.0	198.0	0	68.4	46.8	115			

Sample ID	LCSD-31306	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	31306	RunNo:	42371					
Prep Date:	4/19/2017	Analysis Date:	4/24/2017	SeqNo:	1332170	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	170	2.0	198.0	0	85.1	46.8	115	21.7	30.1	

### 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
- R RPD outside accepted recovery limits
- 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#: 1704796

28-Apr-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-31305	SampType:	MBLK	TestCode:	SM 9223B Fecal Indicator: E. coli	MPN				
Client ID:	PBW	Batch ID:	31305	RunNo:	42254					
Prep Date:	4/18/2017	Analysis Date:	4/19/2017	SeqNo:	1327710	Units: MPN/100mL				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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



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: EPCOR-EDGEWOOD

Work Order Number: 1704796

RcptNo: 1

Received By: Ashley Gallegos 4/18/2017 2:45:00 PM

Completed By: Ashley Gallegos 4/18/2017 3:38:38 PM

Reviewed By: IO 4/18/17 @ 1625

*AG*  
*AG*

**Chain of Custody**

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

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
*Samples were collected the same day and chilled.*
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.3	Good	Not Present			





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

May 25, 2017

Mike Butler  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1705842

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/16/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 5/16/2017 2:20:00 PM

Lab ID: 1705842-001

Matrix: AQUEOUS

Received Date: 5/16/2017 3:23:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>SM5210B: BOD</b>							Analyst: tnc
Biochemical Oxygen Demand	14	2.0		mg/L	1	5/22/2017 2:33:00 PM	31805
<b>SM 9223B FECAL INDICATOR: E. COLI MPN</b>							Analyst: SMS
E. Coli	298.7	1.000		MPN/100mL	1	5/17/2017 6:35:00 PM	31773

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705842

25-May-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-1-31805	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	31805	RunNo:	42965					
Prep Date:	5/17/2017	Analysis Date:	5/22/2017	SeqNo:	1352034	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-2-31805	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	31805	RunNo:	42965					
Prep Date:	5/17/2017	Analysis Date:	5/22/2017	SeqNo:	1352035	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-31805	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	31805	RunNo:	42965					
Prep Date:	5/17/2017	Analysis Date:	5/22/2017	SeqNo:	1352036	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	270	2.0	198.0	0	136	46.8	115			S

Sample ID	LCSD-31805	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	31805	RunNo:	42965					
Prep Date:	5/17/2017	Analysis Date:	5/22/2017	SeqNo:	1352037	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	250	2.0	198.0	0	127	46.8	115	6.73	30.1	S

Sample ID	1705842-001BDUP	SampType:	DUP	TestCode:	SM5210B: BOD					
Client ID:	Effluent	Batch ID:	31805	RunNo:	42965					
Prep Date:	5/17/2017	Analysis Date:	5/22/2017	SeqNo:	1352040	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	15	2.0						6.90	20	

### 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
- R RPD outside accepted recovery limits
- 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#: 1705842

25-May-17

Client: EPCOR Water

Project: EWWTP

Sample ID	MB-31773	SampType:	MBLK	TestCode:	SM 9223B Fecal Indicator: E. coli MPN					
Client ID:	PBW	Batch ID:	31773	RunNo:	42917					
Prep Date:	5/16/2017	Analysis Date:	5/17/2017	SeqNo:	1350550	Units:	MPN/100mL			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	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
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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



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: EPCOR-EDGEWOOD

Work Order Number: 1705842

RcptNo: 1

Received By: Anne Thorne

5/16/2017 3:23:00 PM

*Anne Thorne*

Completed By: Anne Thorne

5/16/2017 3:48:10 PM

*Anne Thorne*

Reviewed By: ENM

05/16/17 @ 1550

### Chain of Custody

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

### Log In

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

# of preserved bottles checked for pH:	_____
(<2 or >12 unless noted)	
Adjusted?	_____
Checked by:	_____

### Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.4	Good	Not Present			

# Chain-of-Custody Record

Client: Excel WITEX  
 Mailing Address: PO BOX 370  
Edgewood, NM 87015  
 Phone #: 505 328-9803  
 email or Fax#: muelchayedo@Excel.com  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 NELAP  Other  
 EDD (Type) \_\_\_\_\_

Project Manager: Mike Butler  
 Sampler: Manny Muelchayedo  
 On-site: [Signature]  
 Sample temperature: 5/17  
 Container Type and #: 102  
 Preservative Type: None

Turn-Around Time:  
 Standard  Rush  
 Project Name:  
E W W T P  
 Project #:  
 \_\_\_\_\_

Analysis Request

Analysis Request	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCBs	8260B (VOA)	8270 (Semi-VOA)	X BOD	X coli: Enum.	Air Bubbles (Y or N)
BTEX + MTBE + TMB's (8021)												
BTEX + MTBE (Gas only)												
TPH 8015B (GRO / DRO / MRO)												
TPH (Method 418.1)												
EDB (Method 504.1)												
PAH's (8310 or 8270 SIMS)												
RCRA 8 Metals												
Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )												
8081 Pesticides / 8082 PCBs												
8260B (VOA)												
8270 (Semi-VOA)												
X BOD												
X coli: Enum.												
Air Bubbles (Y or N)												

Received by: [Signature] Date: 5/16/17 Time: 15:23  
 Relinquished by: [Signature]  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

June 28, 2017

Manny Maldonado  
EPCOR Water  
PO Box 370  
Edgewood, NM 87015  
TEL: (505) 228-6233  
FAX

RE: EWWTP

OrderNo.: 1706A89

Dear Manny Maldonado:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2017 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109