

P.O. Box 839980

Environmental Sciences Department Laboratory ANALYTICAL REPORT



21:20

09:27

8/15/13

8/16/13

San Antonio, TX 78283-9980 August 22, 2013 210-302-3649

Page 1 of 2

Client: Edwards Aquifer Authority

Mark Hamilton

1615 N. Saint Mary's St. San Antonio, TX 78215

Fax #: 210-222-9869

This analytical report is intended exclusively for the individual or entity to which it is addressed. Recipient is not authorized to print or copy this report, except in full without written approval of the laboratory. If you have received this report in error, please notify the San Antonio River Authority.

Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 210-1 AA82128

Sample Number: Sample Matrix:

Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82128-A

E. Coli Holding Time - IDEXX Colilert

AA82128-A

E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82128-A	E. coli	\checkmark	SM 9223B-2004	160	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82128-A	E. Coli Holding Time - IDEXX Colilert		NA	17.23	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





August 22, 2013

Page 1 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

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Sample Location:

HSM 210-2

Sample Number:

AA82129

Sample Matrix: Non Potable Water

Collection Date/Time: 8/15/13 23:20 Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82129-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	<u>Result</u>	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82129-A	E. coli	\checkmark	SM 9223B-2004	150	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82129-A	E. Coli Holding Time - IDEXX Colilert		NA	15.23	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





22:00

09:27

8/15/13

8/16/13

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Page 1 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 230-1

Sample Number:

AA82130

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82130-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82130-A	E. coli	\checkmark	SM 9223B-2004	11000	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82130-A	E. Coli Holding Time - IDEXX Colilert		NA	16.57	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





23:40

09:27

8/15/13

8/16/13

August 22, 2013

Collection Date/Time:

Receipt Date/Time:

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Sample Location:

HSM 230-2

Sample Number:

AA82131

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82131-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82131-A	E. coli	\checkmark	SM 9223B-2004	4400	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82131-A	E. Coli Holding Time - IDEXX Colilert		NA	14.90	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

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^{--- -} Not Applicable





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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 230-3 AA82132

Sample Number: Sample Matrix:

Non Potable Water

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82132-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

CASE NARRATIVE

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82132-A	E. coli	\checkmark	SM 9223B-2004	1700	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82132-A	E. Coli Holding Time - IDEXX Colilert		NA	13.32	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





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QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

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^{--- -} Not Applicable



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Sample Location: **HSM 231-1** Sample Number:

AA82133

Sample Matrix: Non Potable Water Collection Date/Time: 8/15/13 22:30 Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82133-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82133-A	E. coli	\checkmark	SM 9223B-2004	12000	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82133-A	E. Coli Holding Time - IDEXX Colilert		NA	16.07	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable





August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35846 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



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Environmental Sciences Department Laboratory ANALYTICAL REPORT



00:10

09:27

8/16/13

8/16/13

Page 1 of 2

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Client: Edwards Aquifer Authority

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Collection Date/Time:

Receipt Date/Time:

Sample Location: Sample Number:

HSM 231-2 AA82134

Sample Matrix:

Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82134-A

Sample analysis resumed despite being out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82134-A	E. coli	\checkmark	SM 9223B-2004	2000	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82134-A	E. Coli Holding Time - IDEXX Colilert		NA	14.40	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable





August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

QC ANALYTICAL RESULTS

QC Batch Name:	E_COLI_QUANTITRAY-35846				Acc	eptance Criter	<u>ia</u>
QC Analyte Name Initial Blank for E. coli		Result Absent	<u>Units</u>	<u>Qualifier</u>	<u>Lower</u> 	Target Absent	<u>Upper</u>
Fother M. Carraj.	al a		8/22/2013				

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





01:45

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Page 1 of 2

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 231-3

Sample Number:

AA82135

Sample Matrix:

Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82135-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82135-A	E. coli	\checkmark	SM 9223B-2004	1600	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82135-A	E. Coli Holding Time - IDEXX Colilert		NA	12.82	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

QC ANALYTICAL RESULTS

QC Batch Name:	E_COLI_QUANTITRAY-35846				Acc	eptance Criter	<u>ia</u>
QC Analyte Name Initial Blank for E. coli		Result Absent	<u>Units</u>	<u>Qualifier</u>	<u>Lower</u> 	Target Absent	<u>Upper</u>
Fother M. Carraj.	al a		8/22/2013				

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



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Collection Date/Time:

Receipt Date/Time:

Sample Location: HSM 240-1 Sample Number: AA82136

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "\" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82136-A E. co

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	Number	Date	Time	<u>Analyst</u>
AA82136-A	E. coli	\checkmark	SM 9223B-2004	9800	MPN/100 mL	*H	1	35846	8/16/13	14:34	RSC/ZJ
AA82136-A	E. Coli Holding Time - IDEXX Colilert		NA	16.82	hours		0.00	35845	8/16/13	14:34	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable





August 22, 2013

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QC ANALYTICAL RESULTS

QC Batch Name:	E_COLI_QUANTITRAY-35846				Acc	eptance Criter	<u>ia</u>
QC Analyte Name Initial Blank for E. coli		Result Absent	<u>Units</u>	<u>Qualifier</u>	<u>Lower</u> 	Target Absent	<u>Upper</u>
Fother M. Carraj.	al a		8/22/2013				

Patricia M. Carvajal

Quality Control & Data Management Supervisor

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A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable





23:30

09:27

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 240-2

Sample Number:

AA82137

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82137-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82137-A	E. coli	\checkmark	SM 9223B-2004	610	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82137-A	E. Coli Holding Time - IDEXX Colilert		NA	15.38	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable



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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





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1615 N. Saint Mary's St. San Antonio, TX 78215

Fax #: 210-222-9869

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 240-3

Sample Number:

AA82138

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82138-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	Number	Date	Time	<u>Analyst</u>
AA82138-A	E. coli	\checkmark	SM 9223B-2004	210	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82138-A	E. Coli Holding Time - IDEXX Colilert		NA	13.55	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





22:30

09:27

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

August 22, 2013

8/15/13

8/16/13

Page 1 of 2

Client: Edwards Aquifer Authority

Mark Hamilton

1615 N. Saint Mary's St. San Antonio, TX 78215

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 250-1

Sample Number:

AA82139

Sample Matrix:

Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Fax #: 210-222-9869

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82139-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82139-A	E. coli	\checkmark	SM 9223B-2004	20000	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82139-A	E. Coli Holding Time - IDEXX Colilert		NA	16.38	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





00:20

09:27

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

August 22, 2013 Page 1 of 2

8/16/13

8/16/13

Client: Edwards Aquifer Authority

Mark Hamilton

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Fax #: 210-222-9869

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 250-2

Sample Number:

AA82140

Sample Matrix:

Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82140-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82140-A	E. coli	\checkmark	SM 9223B-2004	12000	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82140-A	E. Coli Holding Time - IDEXX Colilert		NA	14.55	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable



P.O. Box 839980

Environmental Sciences Department Laboratory ANALYTICAL REPORT



01:40

09:27

8/16/13

8/16/13

210-302-3649

August 22, 2013

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Client: Edwards Aquifer Authority

San Antonio, TX 78283-9980

Mark Hamilton

1615 N. Saint Mary's St. San Antonio, TX 78215

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 250-3

Sample Number:

AA82141

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82141-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82141-A	E. coli	\checkmark	SM 9223B-2004	11000	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82141-A	E. Coli Holding Time - IDEXX Colilert		NA	13.22	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





21:25

09:27

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8/15/13

8/16/13

Client: Edwards Aquifer Authority

Mark Hamilton

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 260-1

Sample Number:

AA82142

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82142-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82142-A	E. coli	\checkmark	SM 9223B-2004	1400	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82142-A	E. Coli Holding Time - IDEXX Colilert		NA	17.47	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





22:45

09:27

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

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8/15/13

8/16/13

Client: Edwards Aquifer Authority

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 260-2

Sample Number:

AA82143

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82143-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82143-A	E. coli	\checkmark	SM 9223B-2004	3900	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82143-A	E. Coli Holding Time - IDEXX Colilert		NA	16.13	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

August 22, 2013 210-302-3649

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Client: Edwards Aquifer Authority

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Sample Location:

HSM 260-3

Sample Number: **AA82144** Sample Matrix:

Non Potable Water

Collection Date/Time: 8/15/13 Receipt Date/Time: 8/16/13

23:45 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82144-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82144-A	E. coli	\checkmark	SM 9223B-2004	6500	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82144-A	E. Coli Holding Time - IDEXX Colilert		NA	15.13	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

August 22, 2013 Page 1 of 2

Client: Edwards Aquifer Authority

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1615 N. Saint Mary's St. San Antonio, TX 78215

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Fax #: 210-222-9869

Sample Location: **HSM 260FD** Sample Number:

AA82145

Sample Matrix: Non Potable Water Collection Date/Time: 8/15/13 23:45 Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82145-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82145-A	E. coli	\checkmark	SM 9223B-2004	6900	MPN/100 mL	*H	1	35848	8/16/13	14:53	RSC/ZJ
AA82145-A	E. Coli Holding Time - IDEXX Colilert		NA	15.13	hours		0.00	35847	8/16/13	14:53	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



August 22, 2013

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35848 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Target Upper Lower Initial Blank for E. coli Absent Absent Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable



P.O. Box 839980

Environmental Sciences Department Laboratory ANALYTICAL REPORT



Page 1 of 2

August 22, 2013 210-302-3649

Client: Edwards Aquifer Authority

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1615 N. Saint Mary's St. San Antonio, TX 78215

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Sample Location: Sample Number:

HSM 270-1 AA82146

Sample Matrix: Non Potable Water Collection Date/Time: 8/15/13 22:05 Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82146-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	<u>Result</u>	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	Time	<u>Analyst</u>
AA82146-A	E. coli	\checkmark	SM 9223B-2004	4900	MPN/100 mL	*H	1	35850	8/16/13	15:03	RSC/ZJ
AA82146-A	E. Coli Holding Time - IDEXX Colilert		NA	16.97	hours		0.00	35849	8/16/13	15:03	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



Upper

August 22, 2013

Target

Absent

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35850 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Lower Initial Blank for E. coli Absent

Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable



P.O. Box 839980

210-302-3649

Environmental Sciences Department Laboratory ANALYTICAL REPORT



23:15

09:27

8/15/13

8/16/13

August 22, 2013

Page 1 of 2

Client: Edwards Aquifer Authority

San Antonio, TX 78283-9980

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 270-2

Sample Number:

AA82147

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82147-A

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	<u>Result</u>	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82147-A	E. coli	\checkmark	SM 9223B-2004	4900	MPN/100 mL	*H	1	35850	8/16/13	15:03	RSC/ZJ
AA82147-A	E. Coli Holding Time - IDEXX Colilert		NA	15.80	hours		0.00	35849	8/16/13	15:03	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded

J - Analyte detected outside quantitation limit

* - See Case Narrative

--- - Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



Upper

August 22, 2013

Target

Absent

Page 2 of 2

600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35850 **Acceptance Criteria** Qualifier **QC Analyte Name** Result Units Lower Initial Blank for E. coli Absent

Follow M. Carrajal

Patricia M. Carvajal

Quality Control & Data Management Supervisor

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{--- -} Not Applicable





00:30

09:27

8/16/13

8/16/13

August 22, 2013

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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

210-302-3649

Client: Edwards Aquifer Authority

Mark Hamilton

1615 N. Saint Mary's St. San Antonio, TX 78215

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Collection Date/Time:

Receipt Date/Time:

Sample Location:

HSM 270-3 AA82148

Sample Number:

Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a " $\sqrt{}$ " complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82148-A

Sample analysis proceeded despite out of hold time; per customer instructions.

							<u>Reporting</u>	QC Batch	<u>Ana</u>	<u>lysis</u>	
	<u>Analyses</u>	NELAC	Analysis Method	Result	<u>Units</u>	Qualifier	<u>Limit</u>	<u>Number</u>	Date	<u>Time</u>	<u>Analyst</u>
AA82148-A	E. coli	\checkmark	SM 9223B-2004	5200	MPN/100 mL	*H	1	35850	8/16/13	15:03	RSC/ZJ
AA82148-A	E. Coli Holding Time - IDEXX Colilert		NA	14.55	hours		0.00	35849	8/16/13	15:03	RSC/ZJ

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable



Environmental Sciences Department Laboratory ANALYTICAL REPORT



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600 E Euclid Avenue P.O. Box 839980 San Antonio, TX 78283-9980

QC ANALYTICAL RESULTS

QC Batch Name: E_COLI_QUANTITRAY-35850

QC Analyte Name Initial Blank for E. coli

Result Units Qualifier Lower Target Upper Absent --- Absent ---

Patricia M. Carvajal

Quality Control & Data Management Supervisor

Follow M. Carrajal

8/22/2013

A - Outside upper acceptance criteria

D - Outside lower acceptance criteria

T - Microbiological Controls were unacceptable

J - Analyte detected outside quantitation limit

^{* -} See Case Narrative

^{--- -} Not Applicable