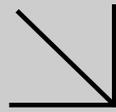


Appendix F
Certificates of Analyses



CALSCIENCE

WORK ORDER NUMBER: 14-04-1691

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Rubicon Engineering

Client Project Name: 1073.01 Green Acres

Attention: Mohsen Mehran
12821 Newport Avenue
Tustin, CA 92780-2711

Approved for release on 05/01/2014 by:
Virendra Patel
Project Manager

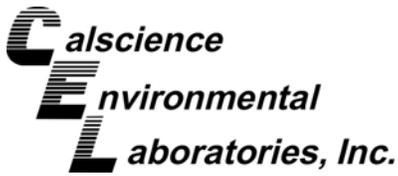
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

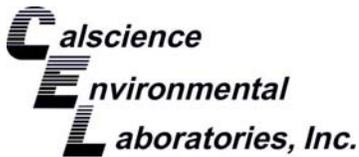




Contents

Client Project Name: 1073.01 Green Acres
Work Order Number: 14-04-1691

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Work Order Narrative

Work Order: 14-04-1691

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Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/23/14. They were assigned to Work Order 14-04-1691.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the CalScience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

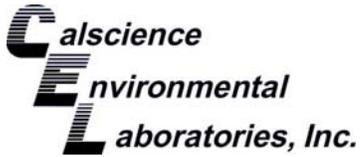
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

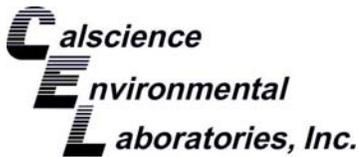


Sample Summary

Client: Rubicon Engineering	Work Order: 14-04-1691
12821 Newport Avenue	Project Name: 1073.01 Green Acres
Tustin, CA 92780-2711	PO Number:
	Date/Time Received: 04/23/14 14:39
	Number of Containers: 27

Attn: Mohsen Mehran

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
RM-1	14-04-1691-1	04/23/14 11:50	9	Aqueous
RM-2	14-04-1691-2	04/23/14 12:25	9	Aqueous
RM-3	14-04-1691-3	04/23/14 12:58	9	Aqueous



Detections Summary

Client: Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Work Order: 14-04-1691
Project Name: 1073.01 Green Acres
Received: 04/23/14

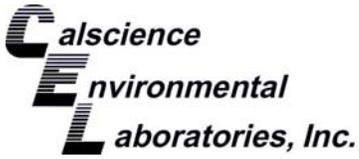
Attn: Mohsen Mehran

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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
RM-1 (14-04-1691-1)						
Boron	1.53		0.0200	mg/L	EPA 200.7	N/A
Chloride	360		10	mg/L	EPA 300.0	N/A
Nitrite (as N)	20		1.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	0.94		0.10	mg/L	EPA 300.0	N/A
Sulfate	380		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	1860		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	4.3		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	2.7		0.50	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	2.5		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	1.8		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Coliform	1100			MPN/100ml	SM9221B	N/A
Fecal Coliform	68			MPN/100ml	SM9221B/E	N/A
Total Nitrogen	26		1.0	mg/L	Total Nitrogen by Calc	N/A
RM-2 (14-04-1691-2)						
Boron	0.362		0.0200	mg/L	EPA 200.7	N/A
Chloride	650		20	mg/L	EPA 300.0	N/A
Sulfate	1500		20	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	3640		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	2.0		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	2.8		0.50	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	1.6		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	0.36		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Nitrogen	2.0		0.50	mg/L	Total Nitrogen by Calc	N/A
RM-3 (14-04-1691-3)						
Boron	0.958		0.0200	mg/L	EPA 200.7	N/A
Chloride	880		50	mg/L	EPA 300.0	N/A
Sulfate	370		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	2440		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	31		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	2.1		0.50	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	22		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	9.0		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Coliform	220			MPN/100ml	SM9221B	N/A
Fecal Coliform	220			MPN/100ml	SM9221B/E	N/A
Total Nitrogen	31		0.50	mg/L	Total Nitrogen by Calc	N/A

* MDL is shown



Detections Summary

Client: Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Work Order: 14-04-1691
Project Name: 1073.01 Green Acres
Received: 04/23/14

Attn: Mohsen Mehran

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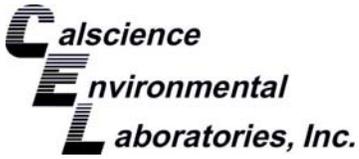
Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
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Subcontracted analyses, if any, are not included in this summary.


Return to Contents

* MDL is shown



Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/23/14
 Work Order: 14-04-1691
 Preparation: N/A
 Method: EPA 200.7
 Units: mg/L

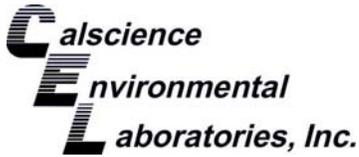
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	14-04-1691-1-B	04/23/14 11:50	Aqueous	ICP 7300	04/23/14	04/24/14 13:37	140423LA4A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		1.53	0.0200		1.00		
RM-2	14-04-1691-2-B	04/23/14 12:25	Aqueous	ICP 7300	04/23/14	04/24/14 13:39	140423LA4A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		0.362	0.0200		1.00		
RM-3	14-04-1691-3-B	04/23/14 12:58	Aqueous	ICP 7300	04/23/14	04/24/14 13:40	140423LA4A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		0.958	0.0200		1.00		
Method Blank	097-01-012-5745	N/A	Aqueous	ICP 7300	04/23/14	04/24/14 11:33	140423LA4A
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		ND	0.0200		1.00		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM9221B
Units: MPN/100ml

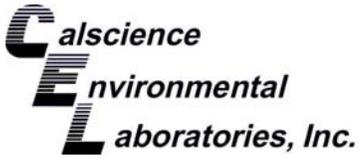
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	14-04-1691-1-G	04/23/14 11:50	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423TCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				1100			
RM-2	14-04-1691-2-G	04/23/14 12:25	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423TCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
RM-3	14-04-1691-3-G	04/23/14 12:58	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423TCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				220			
Method Blank	099-15-102-330	N/A	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423TCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/23/14
 Work Order: 14-04-1691
 Preparation: N/A
 Method: SM9221B/E
 Units: MPN/100ml

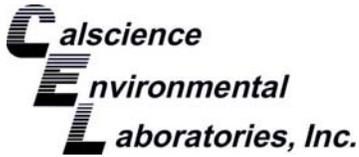
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	14-04-1691-1-G	04/23/14 11:50	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423FCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				68			
RM-2	14-04-1691-2-G	04/23/14 12:25	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423FCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
RM-3	14-04-1691-3-G	04/23/14 12:58	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423FCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				220			
Method Blank	099-15-106-278	N/A	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423FCB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM9230B
Units: MPN/100ml

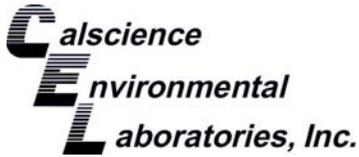
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	14-04-1691-1-G	04/23/14 11:50	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423ENB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
RM-2	14-04-1691-2-G	04/23/14 12:25	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423ENB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
RM-3	14-04-1691-3-G	04/23/14 12:58	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423ENB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
Method Blank	099-15-639-218	N/A	Aqueous	N/A-MICRO	N/A	04/23/14 16:46	E0423ENB02
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711
Project: 1073.01 Green Acres

Date Received:
Work Order:

04/23/14
14-04-1691

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
RM-1	14-04-1691-1	04/23/14 11:50	Aqueous

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Nitrate (as N)	0.94	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Chloride	360	10	10.0		mg/L	N/A	04/23/14	EPA 300.0
Nitrite (as N)	20	1.0	10.0		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	380	10	10.0		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	1860	10.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	4.3	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	2.7	0.50	5.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	2.5	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	1.8	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C
Total Nitrogen	26	1.0	1.00		mg/L	N/A	04/30/14	Total Nitrogen by Calc

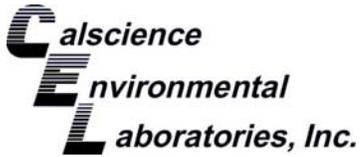
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Nitrite (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrate (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Chloride	650	20	20.0		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	1500	20	20.0		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	3640	10.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	2.0	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	2.8	0.50	5.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	1.6	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	0.36	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C
Total Nitrogen	2.0	0.50	1.00		mg/L	N/A	04/30/14	Total Nitrogen by Calc

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Nitrite (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrate (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Chloride	650	20	20.0		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	1500	20	20.0		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	3640	10.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	2.0	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	2.8	0.50	5.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	1.6	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	0.36	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C
Total Nitrogen	2.0	0.50	1.00		mg/L	N/A	04/30/14	Total Nitrogen by Calc

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Nitrite (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrate (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	370	10	10.0		mg/L	N/A	04/23/14	EPA 300.0
Chloride	880	50	50.0		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	2440	10.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	31	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	2.1	0.50	5.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	22	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	9.0	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C
Total Nitrogen	31	0.50	1.00		mg/L	N/A	04/30/14	Total Nitrogen by Calc

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Nitrite (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrate (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	370	10	10.0		mg/L	N/A	04/23/14	EPA 300.0
Chloride	880	50	50.0		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	2440	10.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	31	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	2.1	0.50	5.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	22	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	9.0	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C
Total Nitrogen	31	0.50	1.00		mg/L	N/A	04/30/14	Total Nitrogen by Calc

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711
 Project: 1073.01 Green Acres

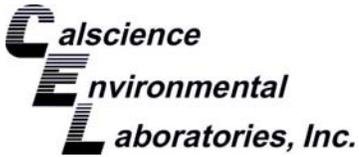
Date Received: 04/23/14
 Work Order: 14-04-1691

Page 2 of 2

Client Sample Number	Lab Sample Number				Date/Time Collected		Matrix	
Method Blank					N/A		Aqueous	
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Chloride	ND	1.0	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrite (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Nitrate (as N)	ND	0.10	1.00		mg/L	N/A	04/23/14	EPA 300.0
Sulfate	ND	1.0	1.00		mg/L	N/A	04/23/14	EPA 300.0
Solids, Total Dissolved	ND	1.0	1.00		mg/L	04/25/14	04/25/14	SM 2540 C
Total Kjeldahl Nitrogen	ND	0.50	1.00		mg/L	04/25/14	04/25/14	SM 4500 N Org B
Phosphorus, Total	ND	0.10	1.00		mg/L	04/30/14	04/30/14	SM 4500 P B/E
Nitrogen, Organic	ND	0.50	1.00		mg/L	04/29/14	04/29/14	SM 4500-N(org)
Ammonia (as N)	ND	0.10	1.00		mg/L	04/28/14	04/28/14	SM 4500-NH3 B/C

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/23/14
 Work Order: 14-04-1691
 Preparation: N/A
 Method: EPA 300.0

Project: 1073.01 Green Acres

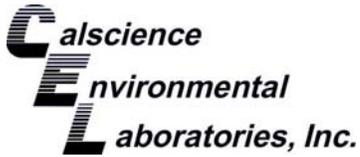
Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1737-1	Sample	Aqueous	IC 10	N/A	04/23/14 21:08	140423S01
14-04-1737-1	Matrix Spike	Aqueous	IC 10	N/A	04/23/14 21:58	140423S01
14-04-1737-1	Matrix Spike Duplicate	Aqueous	IC 10	N/A	04/23/14 22:14	140423S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	202.7	5000	5326	102	5309	102	80-120	0	0-20	
Nitrite (as N)	ND	250.0	271.2	108	255.9	102	80-120	6	0-20	
Nitrate (as N)	ND	500.0	514.3	103	508.5	102	80-120	1	0-20	
Sulfate	471.2	5000	5509	101	5513	101	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 4500 P B/E

Project: 1073.01 Green Acres

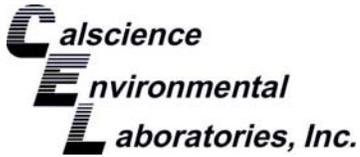
Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-2006-1	Sample	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1
14-04-2006-1	Matrix Spike	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1
14-04-2006-1	Matrix Spike Duplicate	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.4000	0.4230	106	0.4250	106	70-130	0	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

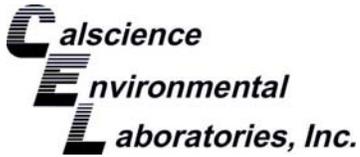
Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1680-1	Sample	Aqueous	ICP 7300	04/23/14	04/23/14 20:10	140423SA4
14-04-1680-1	Matrix Spike	Aqueous	ICP 7300	04/23/14	04/23/14 20:06	140423SA4
14-04-1680-1	Matrix Spike Duplicate	Aqueous	ICP 7300	04/23/14	04/23/14 20:08	140423SA4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Boron	1.921	0.5000	2.330	82	2.324	81	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

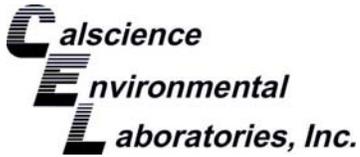
Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 2540 C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-04-1550-9	Sample	Aqueous	SC 5	04/25/14 00:00	04/25/14 14:30	E0425TDSD1
14-04-1550-9	Sample Duplicate	Aqueous	SC 5	04/25/14 00:00	04/25/14 14:30	E0425TDSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	1615	1620	0	0-20	



Quality Control - Sample Duplicate

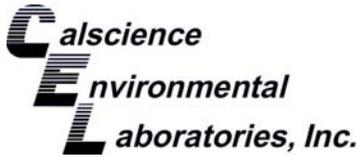
Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 4500 N Org B

Project: 1073.01 Green Acres

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
RM-3	Sample	Aqueous	BUR05	04/25/14 00:00	04/25/14 17:30	E0425TKND1
RM-3	Sample Duplicate	Aqueous	BUR05	04/25/14 00:00	04/25/14 17:30	E0425TKND1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Total Kjeldahl Nitrogen		30.80	30.52	1	0-25	



Quality Control - Sample Duplicate

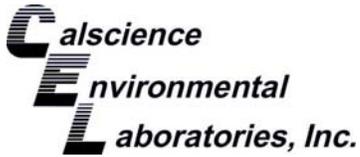
Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 4500-N(org)

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
RM-3	Sample	Aqueous	N/A	04/29/14 00:00	04/29/14 16:42	E0429OND1
RM-3	Sample Duplicate	Aqueous	N/A	04/29/14 00:00	04/29/14 16:42	E0429OND1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrogen, Organic		22.00	22.00	0	0-25	



Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: EPA 300.0

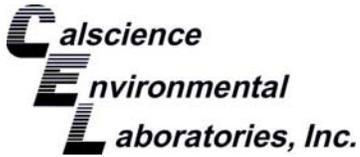
Project: 1073.01 Green Acres

Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-4610	LCS	Aqueous	IC 10	N/A	04/23/14 15:08	140423L01
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Chloride		50.00	49.68	99	90-110	
Nitrite (as N)		2.500	2.520	101	90-110	
Nitrate (as N)		5.000	4.905	98	90-110	
Sulfate		50.00	49.38	99	90-110	


Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 2540 C

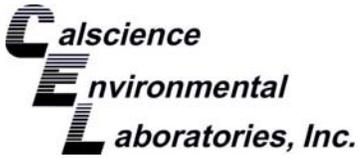
Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-180-4062	LCS	Aqueous	SC 5	04/25/14	04/25/14 14:30	E0425TDSL1			
099-12-180-4062	LCSD	Aqueous	SC 5	04/25/14	04/25/14 14:30	E0425TDSL1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	95.00	95	90.00	90	80-120	5	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/23/14
 Work Order: 14-04-1691
 Preparation: N/A
 Method: SM 4500 P B/E

Project: 1073.01 Green Acres

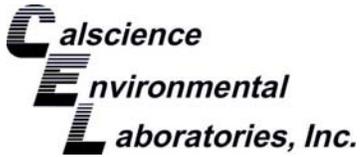
Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-098-2534	LCS	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1
099-05-098-2534	LCSD	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.4000	0.3830	96	0.3880	97	80-120	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

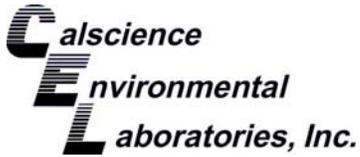
Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: SM 4500-NH3 B/C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-814-1853	LCS	Aqueous	BUR05	04/28/14	04/28/14 16:27	E0428NH3L1			
099-12-814-1853	LCSD	Aqueous	BUR05	04/28/14	04/28/14 16:27	E0428NH3L1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Ammonia (as N)	5.000	4.704	94	4.760	95	80-120	1	0-20	



Quality Control - LCS

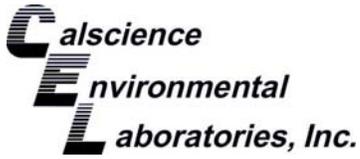
Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/23/14
Work Order: 14-04-1691
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-012-5745	LCS	Aqueous	ICP 7300	04/23/14	04/24/14 11:39	140423LA4A
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Boron		0.5000	0.4863	97	85-115	



Sample Analysis Summary Report

Work Order: 14-04-1691

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 200.7	N/A	469	ICP 7300	1
EPA 300.0	N/A	650	IC 10	1
SM 2540 C	N/A	722	SC 5	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 4500 P B/E	N/A	848	UV 7	1
SM 4500-N(org)	N/A	685	N/A	1
SM 4500-NH3 B/C	N/A	685	BUR05	1
SM9221B	N/A	844	N/A-MICRO	3
SM9221B/E	N/A	844	N/A-MICRO	3
SM9230B	N/A	844	N/A-MICRO	3
Total Nitrogen by Calc	N/A	92	N/A	1


 A blue arrow pointing upwards, with the text "Return to Contents" written vertically to its right.

Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 3: 11380 Knott Street, Garden Grove, CA 90630

Glossary of Terms and Qualifiers

Work Order: 14-04-1691

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: Rubicon

DATE: 04/23/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 4.0 °C - 0.3°C (CF) = 3.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 659

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Checked by: 659

Sample _____ No (Not Intact) Not Present

Checked by: 681

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Collection date/time, matrix, and/or # of containers logged in based on sample labels.

No analysis requested. Not relinquished. No date/time relinquished.

Sampler's name indicated on COC..... Yes No N/A

Sample container label(s) consistent with COC..... Yes No N/A

Sample container(s) intact and good condition..... Yes No N/A

Proper containers and sufficient volume for analyses requested..... Yes No N/A

Analyses received within holding time..... Yes No N/A

Aqueous samples received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfides Dissolved Oxygen..... Yes No N/A

Proper preservation noted on COC or sample container..... Yes No N/A

Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace..... Yes No N/A

Tedlar bag(s) free of condensation..... Yes No N/A

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA^h VOA^{na}₂ 125AGB 125AGB^h 125AGB^p 1AGB 1AGB^{na}₂ 1AGB^s

500AGB 500AGJ 500AGJ^s 250AGB 250CGB 250CGB^s 1PB 1PB^{na} 500PB

250PB 250PBⁿ 125PB 125PB^z_{na} 100PJ 100PJ^{na}₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 659/681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681/739

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 739

Return to Contents

WORK ORDER #: **14-04-**1691

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: Rubicon

DATE: 04/23/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 4.4 °C - 0.3 °C (CF) = 4.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 659

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 659

Sample _____ No (Not Intact) Not Present Checked by: 681

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAn₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs²

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

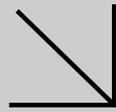
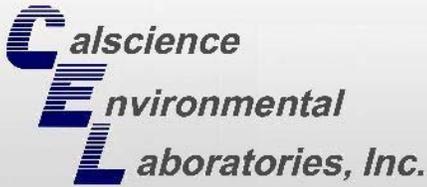
250PB 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 739

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered **Scanned by:** 739

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CALSCIENCE

WORK ORDER NUMBER: 14-04-1800

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Rubicon Engineering

Client Project Name: 1073.01 Green Acres

Attention: Mohsen Mehran
12821 Newport Avenue
Tustin, CA 92780-2711

Approved for release on 05/06/2014 by:
Virendra Patel
Project Manager

ResultLink ▶

Email your PM ▶



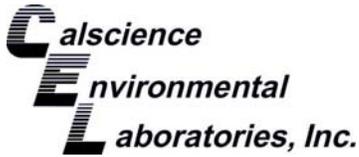
Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Client Project Name: 1073.01 Green Acres

Work Order Number: 14-04-1800

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Work Order Narrative

Work Order: 14-04-1800

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Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/24/14. They were assigned to Work Order 14-04-1800.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the CalScience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

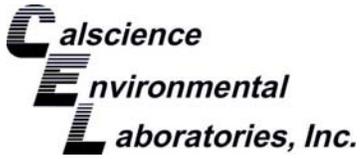
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

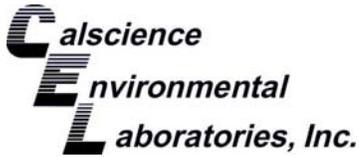


Sample Summary

Client: Rubicon Engineering	Work Order: 14-04-1800
12821 Newport Avenue	Project Name: 1073.01 Green Acres
Tustin, CA 92780-2711	PO Number:
	Date/Time Received: 04/24/14 13:10
	Number of Containers: 18

Attn: Mohsen Mehran

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
RM-5	14-04-1800-1	04/24/14 10:20	9	Aqueous
RM-4	14-04-1800-2	04/24/14 10:55	9	Aqueous



Detections Summary

Client: Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Work Order: 14-04-1800
Project Name: 1073.01 Green Acres
Received: 04/24/14

Attn: Mohsen Mehran

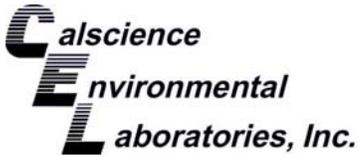
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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
RM-5 (14-04-1800-1)						
Boron	0.451		0.0200	mg/L	EPA 200.7	N/A
Chloride	280		10	mg/L	EPA 300.0	N/A
Sulfate	570		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	1890		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	12		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	8.3		2.5	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	11		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	1.3		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Coliform	45			MPN/100ml	SM9221B	N/A
Fecal Coliform	45			MPN/100ml	SM9221B/E	N/A
Enterococcus	45			MPN/100ml	SM9230B	N/A
Total Nitrogen	12		0.50	mg/L	Total Nitrogen by Calc	N/A
RM-4 (14-04-1800-2)						
Boron	2.23		0.0200	mg/L	EPA 200.7	N/A
Chloride	270		20	mg/L	EPA 300.0	N/A
Sulfate	1500		20	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	3070		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	7.8		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	2.0		0.50	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	0.60		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	7.2		0.10	mg/L	SM 4500-NH3 B/C	N/A
Enterococcus	>16000			MPN/100ml	SM9230B	N/A
Total Nitrogen	7.8		0.50	mg/L	Total Nitrogen by Calc	N/A

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 300.0
Units: mg/L

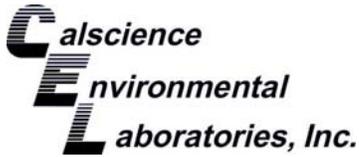
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-B	04/24/14 10:20	Aqueous	IC 7	N/A	04/24/14 15:47	140424L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Nitrite (as N)		ND		0.10		1.00	
Nitrate (as N)		ND		0.10		1.00	
RM-5	14-04-1800-1-B	04/24/14 10:20	Aqueous	IC 7	N/A	04/24/14 18:39	140424L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Chloride		280		10		10.0	
Sulfate		570		10		10.0	
RM-4	14-04-1800-2-B	04/24/14 10:55	Aqueous	IC 7	N/A	04/24/14 16:02	140424L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Nitrite (as N)		ND		0.10		1.00	
Nitrate (as N)		ND		0.10		1.00	
RM-4	14-04-1800-2-B	04/24/14 10:55	Aqueous	IC 7	N/A	04/24/14 18:55	140424L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Chloride		270		20		20.0	
Sulfate		1500		20		20.0	
Method Blank	099-12-906-4615	N/A	Aqueous	IC 7	N/A	04/24/14 10:56	140424L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Chloride		ND		1.0		1.00	
Nitrite (as N)		ND		0.10		1.00	
Nitrate (as N)		ND		0.10		1.00	
Sulfate		ND		1.0		1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 2540 C
Units: mg/L

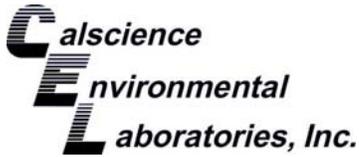
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-D	04/24/14 10:20	Aqueous	SC 5	04/29/14	04/29/14 14:50	E0429TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		1890	10.0		1.00		
RM-4	14-04-1800-2-D	04/24/14 10:55	Aqueous	SC 5	04/29/14	04/29/14 14:50	E0429TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		3070	10.0		1.00		
Method Blank	099-12-180-4064	N/A	Aqueous	SC 5	04/29/14	04/29/14 14:50	E0429TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		ND	1.0		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500 N Org B
Units: mg/L

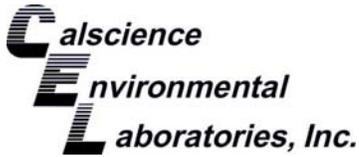
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-F	04/24/14 10:20	Aqueous	BUR05	05/01/14	05/01/14 16:00	E0501TKNB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		12	0.50		1.00		
RM-4	14-04-1800-2-F	04/24/14 10:55	Aqueous	BUR05	05/01/14	05/01/14 16:00	E0501TKNB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		7.8	0.50		1.00		
Method Blank	099-05-076-3243	N/A	Aqueous	BUR05	05/01/14	05/01/14 16:00	E0501TKNB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		ND	0.50		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500 P B/E
Units: mg/L

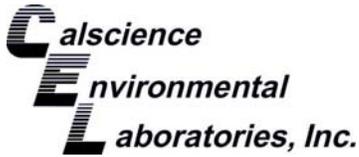
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-A	04/24/14 10:20	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		8.3	2.5		25.0		
RM-4	14-04-1800-2-A	04/24/14 10:55	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		2.0	0.50		5.00		
Method Blank	099-05-098-2534	N/A	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		ND	0.10		1.00		

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Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500-N(org)
Units: mg/L

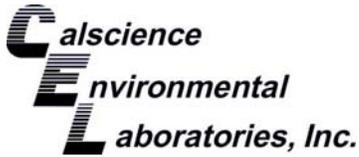
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-F	04/24/14 10:20	Aqueous	N/A	05/01/14	05/01/14 16:16	E0501ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		11	0.50		1.00		
RM-4	14-04-1800-2-F	04/24/14 10:55	Aqueous	N/A	05/01/14	05/01/14 16:16	E0501ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		0.60	0.50		1.00		
Method Blank	099-05-082-63	N/A	Aqueous	N/A	05/01/14	05/01/14 16:16	E0501ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		ND	0.50		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500-NH3 B/C
Units: mg/L

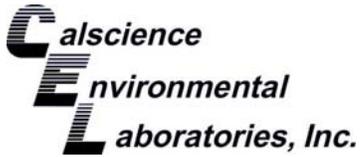
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-E	04/24/14 10:20	Aqueous	BUR05	04/30/14	04/30/14 18:30	E0430NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		1.3	0.10		1.00		
RM-4	14-04-1800-2-E	04/24/14 10:55	Aqueous	BUR05	04/30/14	04/30/14 18:30	E0430NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		7.2	0.10		1.00		
Method Blank	099-12-814-1855	N/A	Aqueous	BUR05	04/30/14	04/30/14 18:30	E0430NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		ND	0.10		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: Total Nitrogen by Calc
Units: mg/L

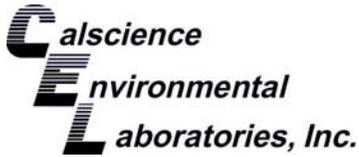
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-F	04/24/14 10:20	Aqueous	N/A	N/A	05/01/14 17:56	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		12	0.50		1.00		
RM-4	14-04-1800-2-F	04/24/14 10:55	Aqueous	N/A	N/A	05/01/14 17:56	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		7.8	0.50		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 200.7
Units: mg/L

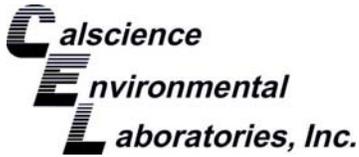
Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-C	04/24/14 10:20	Aqueous	ICP 7300	04/24/14	04/25/14 15:27	140424LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		0.451	0.0200		1.00		
RM-4	14-04-1800-2-C	04/24/14 10:55	Aqueous	ICP 7300	04/24/14	04/25/14 14:30	140424LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		2.23	0.0200		1.00		
Method Blank	097-01-012-5747	N/A	Aqueous	ICP 7300	04/24/14	04/28/14 15:37	140424LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		ND	0.0200		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM9221B
Units: MPN/100ml

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-G	04/24/14 10:20	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424TCB01

<u>Parameter</u>	<u>Result</u>	<u>Qualifiers</u>
Total Coliform	45	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-04-1800-2-G	04/24/14 10:55	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424TCB01

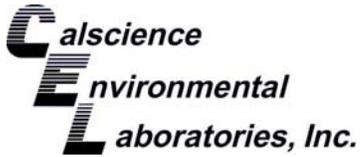
<u>Parameter</u>	<u>Result</u>	<u>Qualifiers</u>
Total Coliform	<18	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-102-331	N/A	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424TCB01

<u>Parameter</u>	<u>Result</u>	<u>Qualifiers</u>
Total Coliform	<18	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM9221B/E
Units: MPN/100ml

Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-G	04/24/14 10:20	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424FCB01

Parameter	Result	Qualifiers
Fecal Coliform	45	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-04-1800-2-G	04/24/14 10:55	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424FCB01

Parameter	Result	Qualifiers
Fecal Coliform	<18	

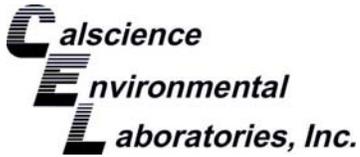
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-106-279	N/A	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424FCB01

Parameter	Result	Qualifiers
Fecal Coliform	<18	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM9230B
Units: MPN/100ml

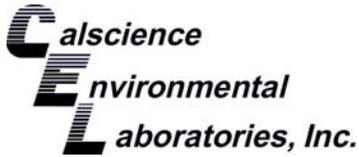
Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-04-1800-1-G	04/24/14 10:20	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				45			
RM-4	14-04-1800-2-G	04/24/14 10:55	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				>16000			
Method Blank	099-15-639-219	N/A	Aqueous	N/A-MICRO	N/A	04/24/14 16:04	D0424ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

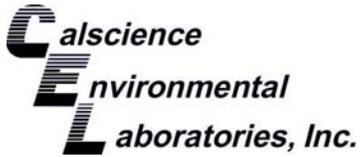
Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1739-1	Sample	Aqueous	IC 7	N/A	04/24/14 14:43	140424S01
14-04-1739-1	Matrix Spike	Aqueous	IC 7	N/A	04/24/14 14:59	140424S01
14-04-1739-1	Matrix Spike Duplicate	Aqueous	IC 7	N/A	04/24/14 15:15	140424S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	202.2	5000	5238	101	5255	101	80-120	0	0-20	
Nitrite (as N)	ND	250.0	294.7	118	254.4	102	80-120	15	0-20	
Nitrate (as N)	ND	500.0	515.1	103	515.2	103	80-120	0	0-20	
Sulfate	14.40	5000	5094	102	5096	102	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500 P B/E

Project: 1073.01 Green Acres

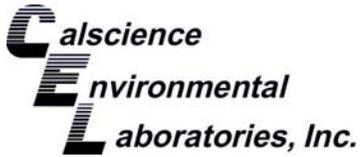
Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-2006-1	Sample	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1
14-04-2006-1	Matrix Spike	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1
14-04-2006-1	Matrix Spike Duplicate	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPS1

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	ND	0.4000	0.4230	106	0.4250	106	70-130	0	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

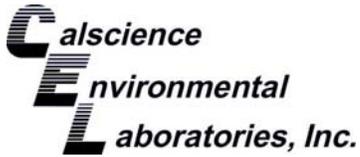
Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-1709-2	Sample	Aqueous	ICP 7300	04/24/14	04/25/14 14:23	140424SA5
14-04-1709-2	Matrix Spike	Aqueous	ICP 7300	04/24/14	04/25/14 15:23	140424SA5
14-04-1709-2	Matrix Spike Duplicate	Aqueous	ICP 7300	04/24/14	04/25/14 15:25	140424SA5

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Boron	0.2201	0.5000	0.7386	104	0.8594	128	80-120	15	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits



Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

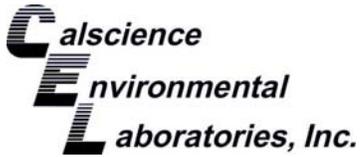
Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 2540 C

Project: 1073.01 Green Acres

Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-04-1837-1	Sample	Aqueous	SC 5	04/29/14 00:00	04/29/14 14:50	E0429TDSD1
14-04-1837-1	Sample Duplicate	Aqueous	SC 5	04/29/14 00:00	04/29/14 14:50	E0429TDSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	775.0	775.0	0	0-20	



Quality Control - Sample Duplicate

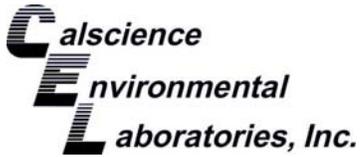
Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500 N Org B

Project: 1073.01 Green Acres

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
RM-4	Sample	Aqueous	BUR05	05/01/14 00:00	05/01/14 16:00	E0501TKND1
RM-4	Sample Duplicate	Aqueous	BUR05	05/01/14 00:00	05/01/14 16:00	E0501TKND1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Total Kjeldahl Nitrogen		7.840	7.840	0	0-25	



Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

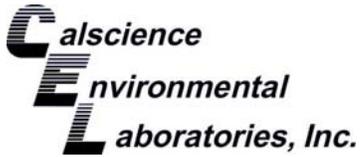
Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 4500-N(org)

Project: 1073.01 Green Acres

Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
RM-4	Sample	Aqueous	N/A	05/01/14 00:00	05/01/14 16:16	E0501OND1
RM-4	Sample Duplicate	Aqueous	N/A	05/01/14 00:00	05/01/14 16:16	E0501OND1

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrogen, Organic	0.6000	0.7000	15	0-25	



Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

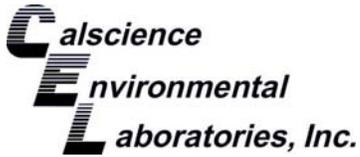
Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-4615	LCS	Aqueous	IC 7	N/A	04/24/14 11:12	140424L01
099-12-906-4615	LCSD	Aqueous	IC 7	N/A	04/24/14 11:59	140424L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	50.00	48.41	97	48.49	97	90-110	0	0-15	
Nitrite (as N)	2.500	2.561	102	2.614	105	90-110	2	0-15	
Nitrate (as N)	5.000	4.919	98	4.928	99	90-110	0	0-15	
Sulfate	50.00	48.78	98	48.78	98	90-110	0	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: SM 2540 C

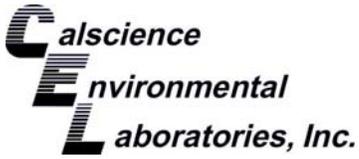
Project: 1073.01 Green Acres

Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-180-4064	LCS	Aqueous	SC 5	04/29/14	04/29/14 14:50	E0429TDSL1			
099-12-180-4064	LCSD	Aqueous	SC 5	04/29/14	04/29/14 14:50	E0429TDSL1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	100.0	90.00	90	95.00	95	80-120	5	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/24/14
 Work Order: 14-04-1800
 Preparation: N/A
 Method: SM 4500 P B/E

Project: 1073.01 Green Acres

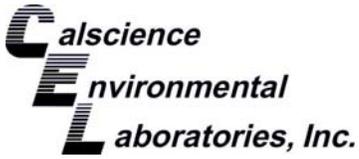
Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-098-2534	LCS	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1
099-05-098-2534	LCSD	Aqueous	UV 7	04/30/14	04/30/14 13:15	E0430TPL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.4000	0.3830	96	0.3880	97	80-120	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS/LCSD

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 04/24/14
 Work Order: 14-04-1800
 Preparation: N/A
 Method: SM 4500-NH3 B/C

Project: 1073.01 Green Acres

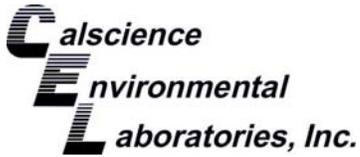
Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-814-1855	LCS	Aqueous	BUR05	04/30/14	04/30/14 18:30	E0430NH3L1
099-12-814-1855	LCSD	Aqueous	BUR05	04/30/14	04/30/14 18:30	E0430NH3L1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Ammonia (as N)	5.000	4.592	92	4.536	91	80-120	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

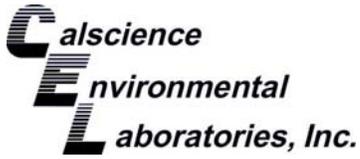
Date Received: 04/24/14
Work Order: 14-04-1800
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-012-5747	LCS	Aqueous	ICP 7300	04/24/14	04/28/14 15:39	140424LA5

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Boron	0.5000	0.4971	99	85-115	



Sample Analysis Summary Report

Work Order: 14-04-1800

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 200.7	N/A	598	ICP 7300	1
EPA 300.0	N/A	650	IC 7	1
SM 2540 C	N/A	722	SC 5	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 4500 P B/E	N/A	848	UV 7	1
SM 4500-N(org)	N/A	685	N/A	1
SM 4500-NH3 B/C	N/A	685	BUR05	1
SM9221B	N/A	844	N/A-MICRO	3
SM9221B/E	N/A	844	N/A-MICRO	3
SM9230B	N/A	844	N/A-MICRO	3
Total Nitrogen by Calc	N/A	92	N/A	1

A blue arrow pointing upwards, with the text "Return to Contents" written vertically to its right.

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 3: 11380 Knott Street, Garden Grove, CA 90630

Glossary of Terms and Qualifiers

Work Order: 14-04-1800

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

WORK ORDER #: **14-04-** 7 8 0 0

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: Rubicon

DATE: 04/24/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 2.9 °C - 0.3°C (CF) = 2.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Checked by: 826

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 826

Sample _____ No (Not Intact) Not Present Checked by: 826

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....			
<input type="checkbox"/> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOAn₂ 125AGB 125AGB_h 125AGB_p 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 826

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 826

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 826

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SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: Rubicon

DATE: 04/24/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 876

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Checked by: 876

Sample _____ No (Not Intact) Not Present

Checked by: 802

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Aqueous samples received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfides Dissolved Oxygen.....

Proper preservation noted on COC or sample container.....

Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace.....

Tedlar bag(s) free of condensation.....

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 1PB_{na} 500PB

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 802

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 802

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: 802

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Calscience



WORK ORDER NUMBER: 14-07-0954

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Rubicon Engineering

Client Project Name: 1073.01 Green Acres

Attention: Mohsen Mehran
12821 Newport Avenue
Tustin, CA 92780-2711

Approved for release on 07/24/2014 by:
Virendra Patel
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 14-07-0954

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/15/14. They were assigned to Work Order 14-07-0954.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

Client: Rubicon Engineering	Work Order: 14-07-0954
12821 Newport Avenue	Project Name: 1073.01 Green Acres
Tustin, CA 92780-2711	PO Number:
	Date/Time Received: 07/15/14 14:06
	Number of Containers: 27

Attn: Mohsen Mehran

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
RM-2	14-07-0954-1	07/15/14 10:58	9	Aqueous
RM-3	14-07-0954-2	07/15/14 11:41	9	Aqueous
RM-1	14-07-0954-3	07/15/14 11:58	9	Aqueous

Detections Summary

Client: Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Work Order: 14-07-0954
 Project Name: 1073.01 Green Acres
 Received: 07/15/14

Attn: Mohsen Mehran

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Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
RM-2 (14-07-0954-1)						
Boron	0.347		0.0200	mg/L	EPA 200.7	N/A
Chloride	590		50	mg/L	EPA 300.0	N/A
Sulfate	1300		50	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	3920		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	1.8		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	0.90		0.20	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	1.5		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	0.28		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Nitrogen	1.8		0.50	mg/L	Total Nitrogen by Calc	N/A
RM-3 (14-07-0954-2)						
Boron	1.10		0.0200	mg/L	EPA 200.7	N/A
Chloride	950		20	mg/L	EPA 300.0	N/A
Sulfate	320		20	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	2620		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	25		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	12		2.5	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	15		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	10		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Nitrogen	25		0.50	mg/L	Total Nitrogen by Calc	N/A
RM-1 (14-07-0954-3)						
Boron	1.69		0.0200	mg/L	EPA 200.7	N/A
Chloride	300		10	mg/L	EPA 300.0	N/A
Nitrite (as N)	2.0		0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	9.9		0.10	mg/L	EPA 300.0	N/A
Sulfate	390		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	1900		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	3.8		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	0.75		0.20	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	0.90		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	2.9		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Nitrogen	16		0.50	mg/L	Total Nitrogen by Calc	N/A

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: 1073.01 Green Acres

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-D	07/15/14 10:58	Aqueous	IC 10	N/A	07/16/14 21:46	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrite (as N)		ND	0.10		1.00		
Nitrate (as N)		ND	0.10		1.00		
RM-2	14-07-0954-1-D	07/15/14 10:58	Aqueous	IC 10	N/A	07/16/14 22:33	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Chloride		590	50		50.0		
Sulfate		1300	50		50.0		
RM-3	14-07-0954-2-D	07/15/14 11:41	Aqueous	IC 10	N/A	07/16/14 22:02	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrite (as N)		ND	0.10		1.00		
Nitrate (as N)		ND	0.10		1.00		
RM-3	14-07-0954-2-D	07/15/14 11:41	Aqueous	IC 10	N/A	07/16/14 22:48	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Chloride		950	20		20.0		
Sulfate		320	20		20.0		
RM-1	14-07-0954-3-D	07/15/14 11:58	Aqueous	IC 10	N/A	07/16/14 22:17	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrite (as N)		2.0	0.10		1.00		
Nitrate (as N)		9.9	0.10		1.00		
RM-1	14-07-0954-3-D	07/15/14 11:58	Aqueous	IC 10	N/A	07/16/14 23:03	140716L02
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Chloride		300	10		10.0		
Sulfate		390	10		10.0		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering	Date Received:	07/15/14
12821 Newport Avenue	Work Order:	14-07-0954
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	EPA 300.0
	Units:	mg/L

Project: 1073.01 Green Acres Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-906-4828	N/A	Aqueous	IC 10	N/A	07/16/14 16:07	140716L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Chloride	ND	1.0	1.00	
Nitrite (as N)	ND	0.10	1.00	
Nitrate (as N)	ND	0.10	1.00	
Sulfate	ND	1.0	1.00	

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 2540 C
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-H	07/15/14 10:58	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		3920	10.0		1.00		
RM-3	14-07-0954-2-H	07/15/14 11:41	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		2620	10.0		1.00		
RM-1	14-07-0954-3-H	07/15/14 11:58	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		1900	10.0		1.00		
Method Blank	099-12-180-4142	N/A	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Solids, Total Dissolved		ND	1.0		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500 N Org B
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-G	07/15/14 10:58	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		1.8	0.50		1.00		
RM-3	14-07-0954-2-G	07/15/14 11:41	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		25	0.50		1.00		
RM-1	14-07-0954-3-G	07/15/14 11:58	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		3.8	0.50		1.00		
Method Blank	099-05-076-3274	N/A	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		ND	0.50		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500 P B/E
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-C	07/15/14 10:58	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		0.90	0.20		2.00		
RM-3	14-07-0954-2-C	07/15/14 11:41	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		12	2.5		25.0		
RM-1	14-07-0954-3-C	07/15/14 11:58	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		0.75	0.20		2.00		
Method Blank	099-05-098-2552	N/A	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		ND	0.10		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering	Date Received:	07/15/14
12821 Newport Avenue	Work Order:	14-07-0954
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 4500-N(org)
	Units:	mg/L

Project: 1073.01 Green Acres Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-G	07/15/14 10:58	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		1.5	0.50		1.00		
RM-3	14-07-0954-2-G	07/15/14 11:41	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		15	0.50		1.00		
RM-1	14-07-0954-3-G	07/15/14 11:58	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		0.90	0.50		1.00		
Method Blank	099-05-082-64	N/A	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		ND	0.50		1.00		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 07/15/14
 Work Order: 14-07-0954
 Preparation: N/A
 Method: SM 4500-NH3 B/C
 Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-F	07/15/14 10:58	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		0.28	0.10		1.00		
RM-3	14-07-0954-2-F	07/15/14 11:41	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		10	0.10		1.00		
RM-1	14-07-0954-3-F	07/15/14 11:58	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		2.9	0.10		1.00		
Method Blank	099-12-814-1895	N/A	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		ND	0.10		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Date Received: 07/15/14 Work Order: 14-07-0954 Preparation: N/A Method: Total Nitrogen by Calc Units: mg/L
Project: 1073.01 Green Acres	Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-G	07/15/14 10:58	Aqueous	N/A	N/A	07/23/14 13:19	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		1.8	0.50		1.00		
RM-3	14-07-0954-2-G	07/15/14 11:41	Aqueous	N/A	N/A	07/23/14 13:19	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		25	0.50		1.00		
RM-1	14-07-0954-3-G	07/15/14 11:58	Aqueous	N/A	N/A	07/23/14 13:19	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		16	0.50		1.00		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 200.7
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-F	07/15/14 10:58	Aqueous	ICP 7300	07/15/14	07/16/14 20:35	140715LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		0.347	0.0200		1.00		
RM-3	14-07-0954-2-F	07/15/14 11:41	Aqueous	ICP 7300	07/15/14	07/16/14 20:36	140715LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		1.10	0.0200		1.00		
RM-1	14-07-0954-3-F	07/15/14 11:58	Aqueous	ICP 7300	07/15/14	07/16/14 20:37	140715LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		1.69	0.0200		1.00		
Method Blank	097-01-012-5818	N/A	Aqueous	ICP 7300	07/15/14	07/16/14 15:01	140715LA5
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		ND	0.0200		1.00		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 07/15/14
 Work Order: 14-07-0954
 Preparation: N/A
 Method: SM9221B
 Units: MPN/100ml

Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-I	07/15/14 10:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
RM-3	14-07-0954-2-I	07/15/14 11:41	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
RM-1	14-07-0954-3-I	07/15/14 11:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
Method Blank	099-15-102-351	N/A	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM9221B/E
Units: MPN/100ml

Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-I	07/15/14 10:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
RM-3	14-07-0954-2-I	07/15/14 11:41	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
RM-1	14-07-0954-3-I	07/15/14 11:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
Method Blank	099-15-106-294	N/A	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			

Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 07/15/14
 Work Order: 14-07-0954
 Preparation: N/A
 Method: SM9230B
 Units: MPN/100ml

Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	14-07-0954-1-I	07/15/14 10:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
RM-3	14-07-0954-2-I	07/15/14 11:41	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
RM-1	14-07-0954-3-I	07/15/14 11:58	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
Method Blank	099-15-639-234	N/A	Aqueous	N/A-MICRO	N/A	07/15/14 16:26	D0715ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1076-1	Sample	Aqueous	IC 10	N/A	07/16/14 20:45	140716S02
14-07-1076-1	Matrix Spike	Aqueous	IC 10	N/A	07/16/14 21:16	140716S02
14-07-1076-1	Matrix Spike Duplicate	Aqueous	IC 10	N/A	07/16/14 21:31	140716S02

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	41.03	5000	5093	101	5233	104	80-120	3	0-20	
Nitrite (as N)	ND	250.0	235.5	94	250.5	100	80-120	6	0-20	
Nitrate (as N)	0.1340	500.0	506.6	101	517.4	103	80-120	2	0-20	
Sulfate	336.0	5000	5295	99	5428	102	80-120	2	0-20	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500 P B/E

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1035-1	Sample	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1
14-07-1035-1	Matrix Spike	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1
14-07-1035-1	Matrix Spike Duplicate	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.2142	0.4000	0.6060	98	0.6020	97	70-130	1	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-0861-1	Sample	Aqueous	ICP 7300	07/15/14	07/16/14 15:14	140715SA5
14-07-0861-1	Matrix Spike	Aqueous	ICP 7300	07/15/14	07/16/14 15:16	140715SA5
14-07-0861-1	Matrix Spike Duplicate	Aqueous	ICP 7300	07/15/14	07/16/14 15:17	140715SA5

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Boron	2.650	0.5000	3.238	4X	3.072	4X	80-120	4X	0-20	Q

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - Sample Duplicate

Rubicon Engineering	Date Received:	07/15/14
12821 Newport Avenue	Work Order:	14-07-0954
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 2540 C
Project: 1073.01 Green Acres		Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-07-0892-3	Sample	Aqueous	SC 5	07/21/14 00:00	07/21/14 16:10	E0721TDSD1
14-07-0892-3	Sample Duplicate	Aqueous	SC 5	07/21/14 00:00	07/21/14 16:10	E0721TDSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	1100	1100	0	0-20	

Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500 N Org B

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-07-0791-1	Sample	Aqueous	BUR05	07/18/14 00:00	07/18/14 17:28	E0718TKND2
14-07-0791-1	Sample Duplicate	Aqueous	BUR05	07/18/14 00:00	07/18/14 17:28	E0718TKND2

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Total Kjeldahl Nitrogen	67.76	68.88	2	0-25	

Quality Control - Sample Duplicate

Rubicon Engineering	Date Received:	07/15/14
12821 Newport Avenue	Work Order:	14-07-0954
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 4500-N(org)
Project: 1073.01 Green Acres		Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
RM-1	Sample	Aqueous	N/A	07/22/14 00:00	07/22/14 12:17	E0722OND1
RM-1	Sample Duplicate	Aqueous	N/A	07/22/14 00:00	07/22/14 12:17	E0722OND1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrogen, Organic		0.9000	1.000	11	0-25	

Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-4828	LCS	Aqueous	IC 10	N/A	07/16/14 16:22	140716L02

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Chloride	50.00	48.29	97	90-110	
Nitrite (as N)	2.500	2.417	97	90-110	
Nitrate (as N)	5.000	4.802	96	90-110	
Sulfate	50.00	47.97	96	90-110	

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 2540 C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-180-4142	LCS	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1			
099-12-180-4142	LCSD	Aqueous	SC 5	07/21/14	07/21/14 16:10	E0721TDSL1			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Solids, Total Dissolved	100.0	95.00	95	100.0	100	80-120	5	0-20	

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500 P B/E

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-098-2552	LCS	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
099-05-098-2552	LCSD	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Phosphorus, Total	0.4000	0.3850	96	0.3840	96	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: SM 4500-NH3 B/C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-814-1895	LCS	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1			
099-12-814-1895	LCSD	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ammonia (as N)	5.000	4.816	96	4.704	94	80-120	2	0-20	

Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-012-5818	LCS	Aqueous	ICP 7300	07/15/14	07/16/14 15:06	140715LA5

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Boron	0.5000	0.4991	100	85-115	



Calscience

Sample Analysis Summary Report

Work Order: 14-07-0954

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 200.7	N/A	469	ICP 7300	1
EPA 300.0	N/A	921	IC 10	1
SM 2540 C	N/A	722	SC 5	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 4500 P B/E	N/A	857	UV 8	1
SM 4500-N(org)	N/A	685	N/A	1
SM 4500-NH3 B/C	N/A	685	BUR05	1
SM9221B	N/A	844	N/A-MICRO	3
SM9221B/E	N/A	844	N/A-MICRO	3
SM9230B	N/A	844	N/A-MICRO	3
Total Nitrogen by Calc	N/A	92	N/A	1



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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 3: 11380 Knott Street, Garden Grove, CA 90630

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

WO # / LAB USE ONLY
14-07-0954

LABORATORY CLIENT: Rubicon Engineering Corp.
 ADDRESS: 12821 Newport Ave. STATE: CA ZIP: 92780
 CITY: Tustin
 TEL: (714) 573-0081 E-MAIL: mmehran@rubiconeng.com

CLIENT PROJECT NAME / NUMBER: 1093.01 Green Acres P.O. NO.:
 PROJECT CONTACT: Mohsen Mehran SAMPLER(S): (PRINT) Peter Lee

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	LOG CODE			Field Filtered
		DATE	TIME			Unpreserved	Preserved	Field Filtered	
1	RM-2	7/15/14	10:58	H ₂ O	9				
2	RM-3	7/15/14	11:41	H ₂ O	9				
3	RM-1	7/15/14	11:58	H ₂ O	9				

Requested Analytes:

ANALYTE	TPH (g) <input type="checkbox"/> OR <input type="checkbox"/> TPH (k) <input type="checkbox"/> DRP <input type="checkbox"/>	TDS	TPH <input type="checkbox"/> OR <input type="checkbox"/> COC <input type="checkbox"/> OR <input type="checkbox"/> OIL	BTEX / MTBE <input type="checkbox"/> OR <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (2007)	Oxygenates (2007) - Total Phosphorus	Prep (5000) <input type="checkbox"/> OR <input type="checkbox"/> Tene Core	SVOCs (2007) - Organic Nitrogen	Boethides (2007) - Ammonia ⁹	PCBs (2007) - Enterococci	PAHs <input type="checkbox"/> 9270 <input type="checkbox"/> OR <input type="checkbox"/> 9270 SIM	T22 Metals <input type="checkbox"/> 6010/174X <input type="checkbox"/> OR <input type="checkbox"/> 6020/174X	Cr(VI) <input type="checkbox"/> 7400 <input type="checkbox"/> OR <input type="checkbox"/> 7199 <input type="checkbox"/> OR <input type="checkbox"/> 2106
Total Boron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Total Phosphorus		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Chloride, Sulfate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
M. H. as N, White as N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Total Nitrogen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Total Coliform, Fecal Coliform	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Relinquished by: (Signature) Peter Lee Received by: (Signature/Affiliation) Danny Lee Date: 7/15/14 Time: 1406
 Relinquished by: (Signature) _____ Received by: (Signature/Affiliation) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Received by: (Signature/Affiliation) _____ Date: _____ Time: _____

Calscience

WORK ORDER #: 14-07-0954

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Rubicon Engineering Corp.

DATE: 07/15/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 3.7 °C - 0.3°C (CF) = 3.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 659

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Checked by: 659

Sample _____ No (Not Intact) Not Present

Checked by: 862

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 862

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 659/751

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 739

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Calscience



WORK ORDER NUMBER: 14-07-1035

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Rubicon Engineering

Client Project Name: 1073.01 Green Acres

Attention: Mohsen Mehran
12821 Newport Avenue
Tustin, CA 92780-2711

Approved for release on 07/24/2014 by:
Virendra Patel
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 14-07-1035

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/16/14. They were assigned to Work Order 14-07-1035.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

Client: Rubicon Engineering	Work Order: 14-07-1035
12821 Newport Avenue	Project Name: 1073.01 Green Acres
Tustin, CA 92780-2711	PO Number:
	Date/Time Received: 07/16/14 12:34
	Number of Containers: 18

Attn: Mohsen Mehran

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
RM-4	14-07-1035-1	07/16/14 09:38	9	Aqueous
RM-5	14-07-1035-2	07/16/14 10:10	9	Aqueous

Detections Summary

Client: Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Work Order: 14-07-1035
Project Name: 1073.01 Green Acres
Received: 07/16/14

Attn: Mohsen Mehran

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Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
RM-4 (14-07-1035-1)						
Boron	2.40		0.0200	mg/L	EPA 200.7	N/A
Chloride	280		20	mg/L	EPA 300.0	N/A
Sulfate	1500		20	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	3020		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	7.7		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	0.21		0.10	mg/L	SM 4500 P B/E	N/A
Ammonia (as N)	7.6		0.10	mg/L	SM 4500-NH3 B/C	N/A
Enterococcus	170			MPN/100ml	SM9230B	N/A
Total Nitrogen	7.7		0.50	mg/L	Total Nitrogen by Calc	N/A
RM-5 (14-07-1035-2)						
Boron	0.358		0.0200	mg/L	EPA 200.7	N/A
Chloride	270		10	mg/L	EPA 300.0	N/A
Sulfate	580		10	mg/L	EPA 300.0	N/A
Solids, Total Dissolved	1990		10.0	mg/L	SM 2540 C	N/A
Total Kjeldahl Nitrogen	3.6		0.50	mg/L	SM 4500 N Org B	N/A
Phosphorus, Total	1.3		0.20	mg/L	SM 4500 P B/E	N/A
Nitrogen, Organic	2.6		0.50	mg/L	SM 4500-N(org)	N/A
Ammonia (as N)	1.0		0.10	mg/L	SM 4500-NH3 B/C	N/A
Total Nitrogen	3.6		0.50	mg/L	Total Nitrogen by Calc	N/A

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-E	07/16/14 09:38	Aqueous	IC 15	N/A	07/16/14 20:17	140716L01

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Nitrite (as N)	ND	0.20	2.00	
Nitrate (as N)	ND	0.20	2.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-E	07/16/14 09:38	Aqueous	IC 15	N/A	07/17/14 16:11	140717L01

Parameter	Result	RL	DF	Qualifiers
Chloride	280	20	20.0	
Sulfate	1500	20	20.0	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-07-1035-2-E	07/16/14 10:10	Aqueous	IC 15	N/A	07/16/14 20:36	140716L01

Parameter	Result	RL	DF	Qualifiers
Nitrite (as N)	ND	0.10	1.00	
Nitrate (as N)	ND	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-5	14-07-1035-2-E	07/16/14 10:10	Aqueous	IC 15	N/A	07/17/14 16:30	140717L01

Parameter	Result	RL	DF	Qualifiers
Chloride	270	10	10.0	
Sulfate	580	10	10.0	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-906-4843	N/A	Aqueous	IC 15	N/A	07/16/14 10:33	140716L01

Parameter	Result	RL	DF	Qualifiers
Nitrite (as N)	ND	0.10	1.00	
Nitrate (as N)	ND	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-906-4844	N/A	Aqueous	IC 15	N/A	07/17/14 11:58	140717L01

Parameter	Result	RL	DF	Qualifiers
Chloride	ND	1.0	1.00	
Sulfate	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
 12821 Newport Avenue
 Tustin, CA 92780-2711

Date Received: 07/16/14
 Work Order: 14-07-1035
 Preparation: N/A
 Method: SM 2540 C
 Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-I	07/16/14 09:38	Aqueous	SC 5	07/22/14	07/22/14 15:00	E0722TDSL1

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	3020	10.0	1.00	

RM-5	14-07-1035-2-I	07/16/14 10:10	Aqueous	SC 5	07/22/14	07/22/14 15:00	E0722TDSL1
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	1990	10.0	1.00	

Method Blank	099-12-180-4143	N/A	Aqueous	SC 5	07/22/14	07/22/14 15:00	E0722TDSL1
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	ND	1.0	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: SM 4500 N Org B
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-G	07/16/14 09:38	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		7.7	0.50		1.00		
RM-5	14-07-1035-2-G	07/16/14 10:10	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		3.6	0.50		1.00		
Method Blank	099-05-076-3276	N/A	Aqueous	BUR05	07/18/14	07/18/14 17:28	E0718TKNB2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Kjeldahl Nitrogen		ND	0.50		1.00		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: SM 4500 P B/E
Units: mg/L

Project: 1073.01 Green Acres

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-D	07/16/14 09:38	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		0.21	0.10		1.00		
RM-5	14-07-1035-2-D	07/16/14 10:10	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		1.3	0.20		2.00		
Method Blank	099-05-098-2552	N/A	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Phosphorus, Total		ND	0.10		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: SM 4500-N(org) Units: mg/L
Project: 1073.01 Green Acres	Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-G	07/16/14 09:38	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		ND	0.50		1.00		
RM-5	14-07-1035-2-G	07/16/14 10:10	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		2.6	0.50		1.00		
Method Blank	099-05-082-64	N/A	Aqueous	N/A	07/22/14	07/22/14 12:17	E0722ONB1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Nitrogen, Organic		ND	0.50		1.00		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 4500-NH3 B/C
	Units:	mg/L

Project: 1073.01 Green Acres Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-A	07/16/14 09:38	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		7.6	0.10		1.00		
RM-5	14-07-1035-2-A	07/16/14 10:10	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		1.0	0.10		1.00		
Method Blank	099-12-814-1895	N/A	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Ammonia (as N)		ND	0.10		1.00		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: Total Nitrogen by Calc Units: mg/L
Project: 1073.01 Green Acres	Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-G	07/16/14 09:38	Aqueous	N/A	N/A	07/23/14 19:46	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		7.7	0.50		1.00		
RM-5	14-07-1035-2-G	07/16/14 10:10	Aqueous	N/A	N/A	07/23/14 19:46	
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Total Nitrogen		3.6	0.50		1.00		

Analytical Report

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	EPA 200.7
	Units:	mg/L

Project: 1073.01 Green Acres

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-F	07/16/14 09:38	Aqueous	ICP 7300	07/16/14	07/17/14 16:06	140716LA2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		2.40	0.0200		1.00		
RM-5	14-07-1035-2-F	07/16/14 10:10	Aqueous	ICP 7300	07/16/14	07/17/14 16:07	140716LA2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		0.358	0.0200		1.00		
Method Blank	097-01-012-5819	N/A	Aqueous	ICP 7300	07/16/14	07/17/14 12:55	140716LA2
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
Boron		ND	0.0200		1.00		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: SM9221B Units: MPN/100ml	
Project: 1073.01 Green Acres		Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-A	07/16/14 09:38	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
RM-5	14-07-1035-2-A	07/16/14 10:10	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			
Method Blank	099-15-102-352	N/A	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716TCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Total Coliform				<18			

Analytical Report

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM9221B/E
	Units:	MPN/100ml

Project: 1073.01 Green Acres Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-A	07/16/14 09:38	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
RM-5	14-07-1035-2-A	07/16/14 10:10	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			
Method Blank	099-15-106-295	N/A	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716FCB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Fecal Coliform				<18			

Analytical Report

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM9230B
	Units:	MPN/100ml

Project: 1073.01 Green Acres Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-4	14-07-1035-1-A	07/16/14 09:38	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				170			
RM-5	14-07-1035-2-A	07/16/14 10:10	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			
Method Blank	099-15-639-235	N/A	Aqueous	N/A-MICRO	N/A	07/16/14 14:39	D0716ENB01
<u>Parameter</u>				<u>Result</u>		<u>Qualifiers</u>	
Enterococcus				<18			



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-0978-2	Sample	Aqueous	IC 15	N/A	07/16/14 11:31	140716S01
14-07-0978-2	Matrix Spike	Aqueous	IC 15	N/A	07/16/14 14:21	140716S01
14-07-0978-2	Matrix Spike Duplicate	Aqueous	IC 15	N/A	07/16/14 14:40	140716S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Nitrite (as N)	ND	250.0	263.9	106	271.0	108	80-120	3	0-20	
Nitrate (as N)	ND	500.0	527.0	105	527.8	106	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1093-2	Sample	Aqueous	IC 15	N/A	07/17/14 13:00	140717S01
14-07-1093-2	Matrix Spike	Aqueous	IC 15	N/A	07/17/14 14:37	140717S01
14-07-1093-2	Matrix Spike Duplicate	Aqueous	IC 15	N/A	07/17/14 14:56	140717S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	41.05	5000	5091	101	5094	101	80-120	0	0-20	
Sulfate	124.1	5000	5146	100	5153	101	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: SM 4500 P B/E

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
RM-4	Sample	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1				
RM-4	Matrix Spike	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1				
RM-4	Matrix Spike Duplicate	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPS1				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Phosphorus, Total	0.2142	0.4000	0.6060	98	0.6020	97	70-130	1	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-0963-2	Sample	Aqueous	ICP 7300	07/16/14	07/17/14 13:14	140716SA2
14-07-0963-2	Matrix Spike	Aqueous	ICP 7300	07/16/14	07/17/14 13:15	140716SA2
14-07-0963-2	Matrix Spike Duplicate	Aqueous	ICP 7300	07/16/14	07/17/14 13:16	140716SA2

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Boron	20.91	0.5000	22.80	4X	21.76	4X	80-120	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: SM 2540 C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-07-0985-4	Sample	Aqueous	SC 5	07/22/14 00:00	07/22/14 15:00	E0722TDSD1
14-07-0985-4	Sample Duplicate	Aqueous	SC 5	07/22/14 00:00	07/22/14 15:00	E0722TDSD1

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	4490	4470	0	0-20	

Quality Control - Sample Duplicate

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 4500 N Org B
Project: 1073.01 Green Acres		Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-07-0791-1	Sample	Aqueous	BUR05	07/18/14 00:00	07/18/14 17:28	E0718TKND2
14-07-0791-1	Sample Duplicate	Aqueous	BUR05	07/18/14 00:00	07/18/14 17:28	E0718TKND2
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Total Kjeldahl Nitrogen		67.76	68.88	2	0-25	

Quality Control - Sample Duplicate

Rubicon Engineering	Date Received:	07/16/14
12821 Newport Avenue	Work Order:	14-07-1035
Tustin, CA 92780-2711	Preparation:	N/A
	Method:	SM 4500-N(org)
Project: 1073.01 Green Acres		Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-07-0954-3	Sample	Aqueous	N/A	07/22/14 00:00	07/22/14 12:17	E0722OND1
14-07-0954-3	Sample Duplicate	Aqueous	N/A	07/22/14 00:00	07/22/14 12:17	E0722OND1
<u>Parameter</u>		<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrogen, Organic		0.9000	1.000	11	0-25	

Quality Control - LCS/LCSD

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711 Project: 1073.01 Green Acres	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: EPA 300.0 <div style="text-align: right;">Page 1 of 6</div>
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-906-4843	LCS	Aqueous	IC 15	N/A	07/16/14 10:54	140716L01			
099-12-906-4843	LCSD	Aqueous	IC 15	N/A	07/16/14 11:12	140716L01			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Nitrite (as N)	2.500	2.308	92	2.358	94	90-110	2	0-15	
Nitrate (as N)	5.000	4.831	97	4.823	96	90-110	0	0-15	

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 300.0

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-4844	LCS	Aqueous	IC 15	N/A	07/17/14 12:22	140717L01
099-12-906-4844	LCSD	Aqueous	IC 15	N/A	07/17/14 12:41	140717L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	50.00	50.57	101	50.00	100	90-110	1	0-15	
Sulfate	50.00	50.54	101	49.78	100	90-110	2	0-15	

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: SM 2540 C

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-180-4143	LCS	Aqueous	SC 5	07/22/14	07/22/14 15:00	E0722TDSL1			
099-12-180-4143	LCSD	Aqueous	SC 5	07/22/14	07/22/14 15:00	E0722TDSL1			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Solids, Total Dissolved	100.0	95.00	95	95.00	95	80-120	0	0-20	

Quality Control - LCS/LCSD

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: SM 4500 P B/E
Project: 1073.01 Green Acres	Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-05-098-2552	LCS	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1			
099-05-098-2552	LCSD	Aqueous	UV 8	07/23/14	07/23/14 16:13	E0723TPL1			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Phosphorus, Total	0.4000	0.3850	96	0.3840	96	80-120	0	0-20	

Quality Control - LCS/LCSD

Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711 Project: 1073.01 Green Acres	Date Received: 07/16/14 Work Order: 14-07-1035 Preparation: N/A Method: SM 4500-NH3 B/C Page 5 of 6
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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-814-1895	LCS	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1			
099-12-814-1895	LCSD	Aqueous	BUR05	07/21/14	07/21/14 17:49	E0721NH3L1			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ammonia (as N)	5.000	4.816	96	4.704	94	80-120	2	0-20	

Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Date Received: 07/16/14
Work Order: 14-07-1035
Preparation: N/A
Method: EPA 200.7

Project: 1073.01 Green Acres

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-012-5819	LCS	Aqueous	ICP 7300	07/16/14	07/17/14 13:02	140716LA2
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Boron		0.5000	0.5157	103	85-115	

Sample Analysis Summary Report

Work Order: 14-07-1035

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 200.7	N/A	469	ICP 7300	1
EPA 300.0	N/A	650	IC 15	1
SM 2540 C	N/A	722	SC 5	1
SM 4500 N Org B	N/A	685	BUR05	1
SM 4500 P B/E	N/A	857	UV 8	1
SM 4500-N(org)	N/A	685	N/A	1
SM 4500-NH3 B/C	N/A	685	BUR05	1
SM9221B	N/A	844	N/A-MICRO	3
SM9221B/E	N/A	844	N/A-MICRO	3
SM9230B	N/A	844	N/A-MICRO	3
Total Nitrogen by Calc	N/A	92	N/A	1



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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 3: 11380 Knott Street, Garden Grove, CA 90630

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PES associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

LABORATORY CLIENT: Rubicon Engineering Corp.
 ADDRESS: 12821 Newport Ave.
 CITY: Tustin STATE: CA ZIP: 92780
 TEL: (714) 573-0081 E-MAIL: mmehran@rubiconeng.com
 TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID

CLIENT PROJECT NAME / NUMBER: 1073.01 Green Acres
 PROJECT CONTACT: Mohsen Mehran
 SAMPLER(S): (PRINT) Peter Lee
 P.O. NO.:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

ANALYSIS	Requested	Sampled	Time	Date	Signature/Affiliation
<input type="checkbox"/> Total Boron	<input checked="" type="checkbox"/>				
<input type="checkbox"/> TPH (C) <input type="checkbox"/> DRO	<input checked="" type="checkbox"/>				
<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C4	<input checked="" type="checkbox"/>				
<input type="checkbox"/> VOCs (2269) TKN	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Oxygenates (2269) Total Phosphorus	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Prep (5025) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input checked="" type="checkbox"/>				
<input type="checkbox"/> SVOCs (2267) Organic Nitrogen	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Pesticides (9024) Ammonia	<input checked="" type="checkbox"/>				
<input type="checkbox"/> PCBs (8082) Enterococci	<input checked="" type="checkbox"/>				
<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input checked="" type="checkbox"/>				
<input type="checkbox"/> 122 Metals <input type="checkbox"/> 6016/747X <input type="checkbox"/> 6020/747X	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7190 <input type="checkbox"/> 7199 <input type="checkbox"/> 219.5	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Chloride, Sulfate	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Nitrate & N, Nitrate-N	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Total Nitrogen	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Total Coliform, Fecal Coliform	<input checked="" type="checkbox"/>				

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	LOG CODE		
		DATE	TIME			Unpreserved	Preserved	Field Filtered
1	RM-4	7/16/14	0938	H2O	9			
2	RM-5	7/16/14	1010	H2O	9			

Relinquished by: (Signature) Peter Lee
 Relinquished by: (Signature)
 Relinquished by: (Signature)

Received by: (Signature/Affiliation) Danny Lee
 Received by: (Signature/Affiliation)
 Received by: (Signature/Affiliation)

Date: 7/16/14 Time: 1234
 Date: Time:
 Date: Time:



Calscience

WORK ORDER #: 14-07-1035

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Rubicon

DATE: 07/16/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Temperature 3.7°C - 0.3°C (CF) = 3.4°C [X] Blank [] Sample

[] Sample(s) outside temperature criteria (PM/APM contacted by: _____)

[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Checked by: 659

CUSTODY SEALS INTACT:

[] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A

Checked by: 659

[] Sample [] _____ [] No (Not Intact) [X] Not Present

Checked by: jmb

SAMPLE CONDITION:

Chain-Of-Custody (COC) document(s) received with samples..... [X] Yes [] No [] N/A

COC document(s) received complete..... [X] Yes [] No [] N/A

[] Collection date/time, matrix, and/or # of containers logged in based on sample labels.

[] No analysis requested. [] Not relinquished. [] No date/time relinquished.

Sampler's name indicated on COC..... [X] Yes [] No [] N/A

Sample container label(s) consistent with COC..... [X] Yes [] No [] N/A

Sample container(s) intact and good condition..... [X] Yes [] No [] N/A

Proper containers and sufficient volume for analyses requested..... [X] Yes [] No [] N/A

Analyses received within holding time..... [X] Yes [] No [] N/A

Aqueous samples received within 15-minute holding time

[] pH [] Residual Chlorine [] Dissolved Sulfides [] Dissolved Oxygen..... [] Yes [] No [X] N/A

Proper preservation noted on COC or sample container..... [X] Yes [] No [] N/A

[] Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace..... [] Yes [] No [X] N/A

Tedlar bag(s) free of condensation..... [] Yes [] No [X] N/A

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____

Aqueous: [] VOA [] VOAh [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [X] 1AGBs

[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [X] 250CGBs [X] 1PB [] 1PBna [] 500PB

[X] 250PB [X] 250PBn [] 125PB [] 125PBzanna [] 100PJ [X] 100PJna2 [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: 816

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 862

Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zanna: ZnAc2+NaOH f: Filtered Scanned by: 802

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