Appendix F

Certificates of Analyses

Calscience Environmental Laboratories, Inc.

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

Virendra R Patel

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

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

Calscience Environmental Laboratories, Inc.

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

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-1691 Page 1 of 1

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.

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Calscience Environmental Laboratories, Inc.

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

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Calscience Environmental Laboratories, Inc.

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

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

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* MDL is shown

Calscience Environmental Laboratories, Inc.

Detections Summary

Client:	Rubicon Engineering	Work Order:	14-04-1691
	12821 Newport Avenue	Project Name:	1073.01 Green Acres
	Tustin, CA 92780-2711	Received:	04/23/14
Attn:	Mohsen Mehran		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction

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

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* MDL is shown

Calscience Environmental Laboratories, Inc.

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
Preparation: N/A
Method: EPA 200.7
Units: mg/L

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**

Parameter	Result	RL	DF	Qualifiers
Boron	1.53	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-2	**14-04-1691-2-B**	**04/23/14 12:25**	**Aqueous**	**ICP 7300**	**04/23/14**	**04/24/14 13:39**	**140423LA4A**

Parameter	Result	RL	DF	Qualifiers
Boron	0.362	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-04-1691-3-B**	**04/23/14 12:58**	**Aqueous**	**ICP 7300**	**04/23/14**	**04/24/14 13:40**	**140423LA4A**

Parameter	Result	RL	DF	Qualifiers
Boron	0.958	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-012-5745**	**N/A**	**Aqueous**	**ICP 7300**	**04/23/14**	**04/24/14 11:33**	**140423LA4A**

Parameter	Result	RL	DF	Qualifiers
Boron	ND	0.0200	1.00	

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

Calscience Environmental Laboratories, Inc.

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

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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Total Coliform				220			
Method Blank	**099-15-102-330**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/23/14 16:46**	**E0423TCB02**
Parameter				Result		Qualifiers	
Total Coliform				<18			

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

Calscience Environmental Laboratories, Inc.

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
Preparation: N/A
Method: SM9221B/E
Units: MPN/100ml

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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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Fecal Coliform				220			
Method Blank	**099-15-106-278**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/23/14 16:46**	**E0423FCB02**
Parameter				Result		Qualifiers	
Fecal Coliform				<18			

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

Calscience Environmental Laboratories, Inc.

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
Preparation: N/A
Method: SM9230B
Units: MPN/100ml

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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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Enterococcus				<18			
Method Blank	**099-15-639-218**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/23/14 16:46**	**E0423ENB02**
Parameter				Result		Qualifiers	
Enterococcus				<18			

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

Calscience Environmental Laboratories, Inc.

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

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

RM-2	**14-04-1691-2**	**04/23/14 12:25**	**Aqueous**

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

RM-3	**14-04-1691-3**	**04/23/14 12:58**	**Aqueous**

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.

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Calscience Environmental Laboratories, Inc.

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
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

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering		Date Received:	04/23/14
12821 Newport Avenue		Work Order:	14-04-1691
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
14-04-1550-9	**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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering		Date Received:	04/23/14
12821 Newport Avenue		Work Order:	14-04-1691
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
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**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	30.80	30.52	1	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering		Date Received:	04/23/14
12821 Newport Avenue		Work Order:	14-04-1691
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-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**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Nitrogen, Organic	22.00	22.00	0	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Rubicon Engineering		Date Received:	04/23/14
12821 Newport Avenue		Work Order:	14-04-1691
Tustin, CA 92780-2711		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**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Boron	0.5000	0.4863	97	85-115	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-1691 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
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

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-1691 Page 1 of 1

Qualifiers	Definition
*	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/PDSD 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.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other locations: Concord, San Luis Obispo, Houston, and Corpus Christi
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-04-1691

Date 4/23/14
Page 1 of 1

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

CLIENT PROJECT NAME / NUMBER: 1073.01 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

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Total Boron	TDS	TKN	Total Phosphorus	Organic Nitrogen	Ammonia	Enterococci	Chloride, Sulfate	Nitrate as N, Nitrite as N	Total Nitrogen	Total Coliform, Fecal Coliform
1	RM - 1	4/23/14	1150	H_2O	9				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	RM - 2	4/23/14	1225	H_2O	9				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	RM - 3	4/23/14	1258	H_2O	9				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Relinquished by: (Signature) Peter Lee	Received by: (Signature/Affiliation) Pamyle CGL	Date: 4/23/14	Time: 14:39
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

01/01/14 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-1691

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: 657

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: 657

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑2 1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☑3 100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 657/681

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope Reviewed by: 681 2/5

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 739

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Calscience Environmental Laboratories, Inc.

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	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑3 1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 739

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Calscience Environmental Laboratories, Inc.

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

Virendra R Patel

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

ResultLink

Email your PM

ACCREDITED IN ACCORDANCE WITH nelac

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: 1073.01 Green Acres
Work Order Number: 14-04-1800

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-1800 Page 1 of 1

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.

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Calscience Environmental Laboratories, Inc.

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

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Calscience Environmental Laboratories, Inc.

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

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.

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* MDL is shown

Calscience Environmental Laboratories, Inc.

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

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**

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	**14-04-1800-1-B**	**04/24/14 10:20**	**Aqueous**	**IC 7**	**N/A**	**04/24/14 18:39**	**140424L01**

Parameter	Result	RL	DF	Qualifiers
Chloride	280	10	10.0	
Sulfate	570	10	10.0	

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-B**	**04/24/14 10:55**	**Aqueous**	**IC 7**	**N/A**	**04/24/14 16:02**	**140424L01**

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-4	**14-04-1800-2-B**	**04/24/14 10:55**	**Aqueous**	**IC 7**	**N/A**	**04/24/14 18:55**	**140424L01**

Parameter	Result	RL	DF	Qualifiers
Chloride	270	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
Method Blank	**099-12-906-4615**	**N/A**	**Aqueous**	**IC 7**	**N/A**	**04/24/14 10:56**	**140424L01**

Parameter	Result	RL	DF	Qualifiers
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.

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	1890	10.0	1.00	

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-D**	**04/24/14 10:55**	**Aqueous**	**SC 5**	**04/29/14**	**04/29/14 14:50**	**E0429TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	3070	10.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-4064**	**N/A**	**Aqueous**	**SC 5**	**04/29/14**	**04/29/14 14:50**	**E0429TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	ND	1.0	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	12	0.50	1.00	

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-F**	**04/24/14 10:55**	**Aqueous**	**BUR05**	**05/01/14**	**05/01/14 16:00**	**E0501TKNB1**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	7.8	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-076-3243**	**N/A**	**Aqueous**	**BUR05**	**05/01/14**	**05/01/14 16:00**	**E0501TKNB1**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	ND	0.50	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
Tustin, CA 92780-2711		Preparation:	N/A
		Method:	SM 4500 P B/E
		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-5	**14-04-1800-1-A**	**04/24/14 10:20**	**Aqueous**	**UV 7**	**04/30/14**	**04/30/14 13:15**	**E0430TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	8.3	2.5	25.0	

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-A**	**04/24/14 10:55**	**Aqueous**	**UV 7**	**04/30/14**	**04/30/14 13:15**	**E0430TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	2.0	0.50	5.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-098-2534**	**N/A**	**Aqueous**	**UV 7**	**04/30/14**	**04/30/14 13:15**	**E0430TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	ND	0.10	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
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-5	**14-04-1800-1-F**	**04/24/14 10:20**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 16:16**	**E0501ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	11	0.50	1.00	

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-F**	**04/24/14 10:55**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 16:16**	**E0501ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	0.60	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-082-63**	**N/A**	**Aqueous**	**N/A**	**05/01/14**	**05/01/14 16:16**	**E0501ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	ND	0.50	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
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-5	**14-04-1800-1-E**	**04/24/14 10:20**	**Aqueous**	**BUR05**	**04/30/14**	**04/30/14 18:30**	**E0430NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	1.3	0.10	1.00	

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-E**	**04/24/14 10:55**	**Aqueous**	**BUR05**	**04/30/14**	**04/30/14 18:30**	**E0430NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	7.2	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	**099-12-814-1855**	**N/A**	**Aqueous**	**BUR05**	**04/30/14**	**04/30/14 18:30**	**E0430NH3L1**

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

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
Tustin, CA 92780-2711		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-5	**14-04-1800-1-F**	**04/24/14 10:20**	**Aqueous**	**N/A**	**N/A**	**05/01/14 17:56**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	12	0.50	1.00	

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-F**	**04/24/14 10:55**	**Aqueous**	**N/A**	**N/A**	**05/01/14 17:56**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	7.8	0.50	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**

Parameter	Result	RL	DF	Qualifiers
Boron	0.451	0.0200	1.00	

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-C**	**04/24/14 10:55**	**Aqueous**	**ICP 7300**	**04/24/14**	**04/25/14 14:30**	**140424LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	2.23	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-012-5747**	**N/A**	**Aqueous**	**ICP 7300**	**04/24/14**	**04/28/14 15:37**	**140424LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	ND	0.0200	1.00	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
Tustin, CA 92780-2711		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-5	**14-04-1800-1-G**	**04/24/14 10:20**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/24/14 16:04**	**D0424TCB01**
Parameter				Result		Qualifiers	
Total Coliform				45			
RM-4	**14-04-1800-2-G**	**04/24/14 10:55**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/24/14 16:04**	**D0424TCB01**
Parameter				Result		Qualifiers	
Total Coliform				<18			
Method Blank	**099-15-102-331**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/24/14 16:04**	**D0424TCB01**
Parameter				Result		Qualifiers	
Total Coliform				<18			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
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-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			
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			
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			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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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**	**D0424ENB01**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Enterococcus				>16000			
Method Blank	**099-15-639-219**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**04/24/14 16:04**	**D0424ENB01**
Parameter				Result		Qualifiers	
Enterococcus				<18			

Return to Contents

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
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
14-04-1837-1	**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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering		Date Received:	04/24/14
12821 Newport Avenue		Work Order:	14-04-1800
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
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**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Total Kjeldahl Nitrogen	7.840	7.840	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Sample Duplicate

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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	

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCSD

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

RPD: Relative Percent Difference. CL: Control Limits

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**

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

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RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-1800 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
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

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-1800 Page 1 of 1

Qualifiers	Definition
*	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/PDSD 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.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other locations: Concord, San Luis Obispo, Houston, and Corpus Christi
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-04-1800

Date 4/24/14
Page 1 of 1

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

CLIENT PROJECT NAME / NUMBER: 1073.01 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

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Total Boron	TDS	TKN	Total Phosphorus	Organic Nitrogen	Ammonia	Enterococci	Chloride, Sulfate	Nitrate as N, Nitrite as N	Total Nitrogen	Total Coliform, Fecal Coliform
1	RM-5	4/24/14	1020	H_2O	9				V	V	V	V	V	V	V	V	V	V	V
2	RM-4	4/24/14	1055	H_2O	9				V	V	V	V	V	V	V	V	V	V	V

Relinquished by: (Signature) Peter Lee	Received by: (Signature/Affiliation)	Date: 4/24/14	Time: 1310
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies, respectively.

01/01/14 Revision

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-1800

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: 862

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑(2) 1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☑(3) 100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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: 862

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 862

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-[1][8][0][0]

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: 826

CUSTODY SEALS INTACT:

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

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 802

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**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 ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☑100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:**_____

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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

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Client Project Name: 1073.01 Green Acres
Work Order Number: 14-07-0954

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Work Order Narrative

Work Order: 14-07-0954 Page 1 of 1

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.

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Sample Summary

Client:	Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Work Order:	14-07-0954
		Project Name:	1073.01 Green Acres
		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

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Detections Summary

Client:	Rubicon Engineering	Work Order:	14-07-0954
	12821 Newport Avenue	Project Name:	1073.01 Green Acres
	Tustin, CA 92780-2711	Received:	07/15/14
Attn:	Mohsen Mehran		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
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.

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* MDL is shown

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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 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**

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-2	**14-07-0954-1-D**	**07/15/14 10:58**	**Aqueous**	**IC 10**	**N/A**	**07/16/14 22:33**	**140716L02**

Parameter	Result	RL	DF	Qualifiers
Chloride	590	50	50.0	
Sulfate	1300	50	50.0	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-D**	**07/15/14 11:41**	**Aqueous**	**IC 10**	**N/A**	**07/16/14 22:02**	**140716L02**

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-3	**14-07-0954-2-D**	**07/15/14 11:41**	**Aqueous**	**IC 10**	**N/A**	**07/16/14 22:48**	**140716L02**

Parameter	Result	RL	DF	Qualifiers
Chloride	950	20	20.0	
Sulfate	320	20	20.0	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-D**	**07/15/14 11:58**	**Aqueous**	**IC 10**	**N/A**	**07/16/14 22:17**	**140716L02**

Parameter	Result	RL	DF	Qualifiers
Nitrite (as N)	2.0	0.10	1.00	
Nitrate (as N)	9.9	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-D**	**07/15/14 11:58**	**Aqueous**	**IC 10**	**N/A**	**07/16/14 23:03**	**140716L02**

Parameter	Result	RL	DF	Qualifiers
Chloride	300	10	10.0	
Sulfate	390	10	10.0	

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

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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**

Parameter	Result	RL	DF	Qualifiers
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.

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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 2540 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-2	**14-07-0954-1-H**	**07/15/14 10:58**	**Aqueous**	**SC 5**	**07/21/14**	**07/21/14 16:10**	**E0721TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	3920	10.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-H**	**07/15/14 11:41**	**Aqueous**	**SC 5**	**07/21/14**	**07/21/14 16:10**	**E0721TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	2620	10.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-H**	**07/15/14 11:58**	**Aqueous**	**SC 5**	**07/21/14**	**07/21/14 16:10**	**E0721TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	1900	10.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-4142**	**N/A**	**Aqueous**	**SC 5**	**07/21/14**	**07/21/14 16:10**	**E0721TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	ND	1.0	1.00	

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

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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 B
		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**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	1.8	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-G**	**07/15/14 11:41**	**Aqueous**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	25	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-G**	**07/15/14 11:58**	**Aqueous**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	3.8	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-076-3274**	**N/A**	**Aqueous**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	ND	0.50	1.00	

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

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Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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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**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	0.90	0.20	2.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-C**	**07/15/14 11:41**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	12	2.5	25.0	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-C**	**07/15/14 11:58**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	0.75	0.20	2.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-098-2552**	**N/A**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	ND	0.10	1.00	

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

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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**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	1.5	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-G**	**07/15/14 11:41**	**Aqueous**	**N/A**	**07/22/14**	**07/22/14 12:17**	**E0722ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	15	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-G**	**07/15/14 11:58**	**Aqueous**	**N/A**	**07/22/14**	**07/22/14 12:17**	**E0722ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	0.90	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-082-64**	**N/A**	**Aqueous**	**N/A**	**07/22/14**	**07/22/14 12:17**	**E0722ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	ND	0.50	1.00	

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

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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-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-2	**14-07-0954-1-F**	**07/15/14 10:58**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	0.28	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-F**	**07/15/14 11:41**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	10	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-F**	**07/15/14 11:58**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	2.9	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	**099-12-814-1895**	**N/A**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

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

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

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Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

Date Received: 07/15/14
Work Order: 14-07-0954
Preparation: N/A
Method: Total Nitrogen by Calc
Units: mg/L

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**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	1.8	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-G**	**07/15/14 11:41**	**Aqueous**	**N/A**	**N/A**	**07/23/14 13:19**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	25	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-G**	**07/15/14 11:58**	**Aqueous**	**N/A**	**N/A**	**07/23/14 13:19**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	16	0.50	1.00	

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

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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 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-2	**14-07-0954-1-F**	**07/15/14 10:58**	**Aqueous**	**ICP 7300**	**07/15/14**	**07/16/14 20:35**	**140715LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	0.347	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-3	**14-07-0954-2-F**	**07/15/14 11:41**	**Aqueous**	**ICP 7300**	**07/15/14**	**07/16/14 20:36**	**140715LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	1.10	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
RM-1	**14-07-0954-3-F**	**07/15/14 11:58**	**Aqueous**	**ICP 7300**	**07/15/14**	**07/16/14 20:37**	**140715LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	1.69	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-012-5818**	**N/A**	**Aqueous**	**ICP 7300**	**07/15/14**	**07/16/14 15:01**	**140715LA5**

Parameter	Result	RL	DF	Qualifiers
Boron	ND	0.0200	1.00	

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

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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:	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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Total Coliform				<18			
Method Blank	**099-15-102-351**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/15/14 16:26**	**D0715TCB01**
Parameter				Result		Qualifiers	
Total Coliform				<18			

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

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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:	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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Fecal Coliform				<18			
Method Blank	**099-15-106-294**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/15/14 16:26**	**D0715FCB01**
Parameter				Result		Qualifiers	
Fecal Coliform				<18			

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

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Analytical Report

Rubicon Engineering
12821 Newport Avenue
Tustin, CA 92780-2711

Project: 1073.01 Green Acres

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

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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Enterococcus				<18			
Method Blank	**099-15-639-234**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/15/14 16:26**	**D0715ENB01**
Parameter				Result		Qualifiers	
Enterococcus				<18			

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

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Quality Control - Spike/Spike Duplicate

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
Project: 1073.01 Green Acres			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1076-1	**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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike 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 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
14-07-1035-1	**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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Rubicon Engineering		Date Received:	07/15/14
12821 Newport Avenue		Work Order:	14-07-0954
Tustin, CA 92780-2711		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
14-07-0861-1	**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

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RPD: Relative Percent Difference. CL: Control Limits

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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	

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RPD: Relative Percent Difference. CL: Control Limits

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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 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**

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

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RPD: Relative Percent Difference. CL: Control Limits

eurofins | Calscience

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**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Nitrogen, Organic	0.9000	1.000	11	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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
Project: 1073.01 Green Acres			Page 1 of 5

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

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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 2 of 5

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**

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	100.0	100	80-120	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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 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
099-05-098-2552	**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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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-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
099-12-814-1895	**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**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Ammonia (as N)	5.000	4.816	96	4.704	94	80-120	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Rubicon Engineering		Date Received:	07/15/14
12821 Newport Avenue		Work Order:	14-07-0954
Tustin, CA 92780-2711		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**

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

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-07-0954 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
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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Glossary of Terms and Qualifiers

Work Order: 14-07-0954 Page 1 of 1

Qualifiers	Definition
*	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/PDSD 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.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other locations: Concord, San Luis Obispo, Houston, and Corpus Christi
For courier service / sample drop off information, contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-07-0954

Date 7/15/14
Page 1 of 1

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

CLIENT PROJECT NAME / NUMBER: 1073.01 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

☐ COELT EDF | GLOBAL ID | LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C8-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	122 Metals ☐ 6010/747X ☐ 6020/747X	CrVI ☐ 7196 ☐ 218.6	Total Boron	TDS	TKN	Total Phosphorus	Organic Nitrogen	Ammonia	Enterococci	Chloride, Sulfate	Nitrate as N, Nitrite as N	Total Nitrogen	Total Coliform, Fecal Coliform
1	RM-2	7/15/14	1058	H_2O	9				✓	✓				✓	✓		✓	✓	✓										✓	✓	✓	✓
2	RM-3	7/15/14	1141	H_2O	9				✓	✓				✓	✓		✓	✓	✓										✓	✓	✓	✓
3	RM-1	7/15/14	1158	H_2O	9				✓	✓				✓	✓		✓	✓	✓										✓	✓	✓	✓

Relinquished by: (Signature) Peter Lee	Received by: (Signature/Affiliation) Danny Le on Peter Lee 7/15/14 @2	Date: 7/15/14	Time: 1406
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies, respectively.

01/01/14 Revision

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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	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑(2)1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☑(3)100PJ**na$_2$** ☐_____ ☐_____ ☐_____

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 7/15

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:**$Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 7/15

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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

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Contents

Client Project Name: 1073.01 Green Acres
Work Order Number: 14-07-1035

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Work Order Narrative

Work Order: 14-07-1035 Page 1 of 1

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.

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Sample Summary

Client:	Rubicon Engineering 12821 Newport Avenue Tustin, CA 92780-2711	Work Order:	14-07-1035
		Project Name:	1073.01 Green Acres
		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

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Detections Summary

Client:	Rubicon Engineering	Work Order:	14-07-1035
	12821 Newport Avenue	Project Name:	1073.01 Green Acres
	Tustin, CA 92780-2711	Received:	07/16/14
Attn:	Mohsen Mehran		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
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.

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* MDL is shown

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Analytical Report

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
Units: mg/L

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	

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

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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 2540 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-I**	**07/16/14 09:38**	**Aqueous**	**SC 5**	**07/22/14**	**07/22/14 15:00**	**E0722TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	3020	10.0	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-I**	**07/16/14 10:10**	**Aqueous**	**SC 5**	**07/22/14**	**07/22/14 15:00**	**E0722TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	1990	10.0	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-4143**	**N/A**	**Aqueous**	**SC 5**	**07/22/14**	**07/22/14 15:00**	**E0722TDSL1**

Parameter	Result	RL	DF	Qualifiers
Solids, Total Dissolved	ND	1.0	1.00	

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

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Analytical Report

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 N Org B
Units: mg/L

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**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	7.7	0.50	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-G**	**07/16/14 10:10**	**Aqueous**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	3.6	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-076-3276**	**N/A**	**Aqueous**	**BUR05**	**07/18/14**	**07/18/14 17:28**	**E0718TKNB2**

Parameter	Result	RL	DF	Qualifiers
Total Kjeldahl Nitrogen	ND	0.50	1.00	

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

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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 P B/E
		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-D**	**07/16/14 09:38**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	0.21	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-D**	**07/16/14 10:10**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	1.3	0.20	2.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-098-2552**	**N/A**	**Aqueous**	**UV 8**	**07/23/14**	**07/23/14 16:13**	**E0723TPL1**

Parameter	Result	RL	DF	Qualifiers
Phosphorus, Total	ND	0.10	1.00	

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

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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-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**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	ND	0.50	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-G**	**07/16/14 10:10**	**Aqueous**	**N/A**	**07/22/14**	**07/22/14 12:17**	**E0722ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	2.6	0.50	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-082-64**	**N/A**	**Aqueous**	**N/A**	**07/22/14**	**07/22/14 12:17**	**E0722ONB1**

Parameter	Result	RL	DF	Qualifiers
Nitrogen, Organic	ND	0.50	1.00	

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

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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**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	7.6	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-A**	**07/16/14 10:10**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

Parameter	Result	RL	DF	Qualifiers
Ammonia (as N)	1.0	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	**099-12-814-1895**	**N/A**	**Aqueous**	**BUR05**	**07/21/14**	**07/21/14 17:49**	**E0721NH3L1**

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

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

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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:	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**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	7.7	0.50	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-G**	**07/16/14 10:10**	**Aqueous**	**N/A**	**N/A**	**07/23/14 19:46**	

Parameter	Result	RL	DF	Qualifiers
Total Nitrogen	3.6	0.50	1.00	

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

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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**

Parameter	Result	RL	DF	Qualifiers
Boron	2.40	0.0200	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-F**	**07/16/14 10:10**	**Aqueous**	**ICP 7300**	**07/16/14**	**07/17/14 16:07**	**140716LA2**

Parameter	Result	RL	DF	Qualifiers
Boron	0.358	0.0200	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-012-5819**	**N/A**	**Aqueous**	**ICP 7300**	**07/16/14**	**07/17/14 12:55**	**140716LA2**

Parameter	Result	RL	DF	Qualifiers
Boron	ND	0.0200	1.00	

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

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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
		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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Total Coliform				<18			
Method Blank	**099-15-102-352**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/16/14 14:39**	**D0716TCB01**
Parameter				Result		Qualifiers	
Total Coliform				<18			

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

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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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Fecal Coliform				<18			
Method Blank	**099-15-106-295**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/16/14 14:39**	**D0716FCB01**
Parameter				Result		Qualifiers	
Fecal Coliform				<18			

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

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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**
Parameter				Result		Qualifiers	
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**
Parameter				Result		Qualifiers	
Enterococcus				<18			
Method Blank	**099-15-639-235**	**N/A**	**Aqueous**	**N/A-MICRO**	**N/A**	**07/16/14 14:39**	**D0716ENB01**
Parameter				Result		Qualifiers	
Enterococcus				<18			

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

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Quality Control - Spike/Spike Duplicate

Rubicon Engineering		Date Received:	07/16/14
12821 Newport Avenue		Work Order:	14-07-1035
Tustin, CA 92780-2711		Preparation:	N/A
		Method:	EPA 300.0
Project: 1073.01 Green Acres			Page 1 of 4

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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Rubicon Engineering		Date Received:	07/16/14
12821 Newport Avenue		Work Order:	14-07-1035
Tustin, CA 92780-2711		Preparation:	N/A
		Method:	EPA 300.0
Project: 1073.01 Green Acres			Page 2 of 4

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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike 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 P B/E
Project: 1073.01 Green Acres			Page 3 of 4

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**

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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

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
Project: 1073.01 Green Acres			Page 4 of 4

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

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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 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
14-07-0985-4	**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	

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RPD: Relative Percent Difference. CL: Control Limits

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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**

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

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RPD: Relative Percent Difference. CL: Control Limits

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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**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Nitrogen, Organic	0.9000	1.000	11	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Rubicon Engineering	Date Received: 07/16/14
12821 Newport Avenue	Work Order: 14-07-1035
Tustin, CA 92780-2711	Preparation: N/A
	Method: EPA 300.0
Project: 1073.01 Green Acres	Page 1 of 6

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**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Rubicon Engineering	Date Received: 07/16/14
12821 Newport Avenue	Work Order: 14-07-1035
Tustin, CA 92780-2711	Preparation: N/A
	Method: EPA 300.0
Project: 1073.01 Green Acres	Page 2 of 6

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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Rubicon Engineering	Date Received: 07/16/14
12821 Newport Avenue	Work Order: 14-07-1035
Tustin, CA 92780-2711	Preparation: N/A
	Method: SM 2540 C
Project: 1073.01 Green Acres	Page 3 of 6

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**

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	95.00	95	80-120	0	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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 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**

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	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

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
Project: 1073.01 Green Acres			Page 5 of 6

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**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Ammonia (as N)	5.000	4.816	96	4.704	94	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

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
Project: 1073.01 Green Acres			Page 6 of 6

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**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Boron	0.5000	0.5157	103	85-115	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-07-1035 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
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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Glossary of Terms and Qualifiers

Work Order: 14-07-1035 Page 1 of 1

Qualifiers	Definition
*	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/PDSD 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.

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Calscience Environmental Laboratories, Inc.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
Other locations: Concord, San Luis Obispo, Houston, and Corpus Christi
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **14-07-1035**

Date: 7/16/14

Page: 1 of 1

LABORATORY CLIENT: Rubicon Engineering Corp.

ADDRESS: 12821 Newport Ave.

CITY: Tustin STATE: CA ZIP: 92780

TEL: (714)573-0081 E-MAIL: mmehran@Rubiconeng.com

CLIENT PROJECT NAME / NUMBER: 1073.01 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

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Rsep (6020) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Chloride, Sulfate	Nitrate as N, Nitrite as N	Total Nitrogen	Total Coliform, Fecal Coliform
1	RM-4	7/16/14	0938	H2O	9				✓	✓				✓	✓		✓	✓	✓				✓	✓	✓	✓
2	RM-5	7/16/14	1010	H2O	9				✓	✓				✓	✓		✓	✓	✓				✓	✓	✓	✓

Relinquished by: (Signature) Peter Lee	Received by: (Signature/Affiliation) Danny L ECL	Date: 7/16/14	Time: 1234
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

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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 ☑ 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: JM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ 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	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
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**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☑(2)1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☑250CGB**s** ☑1PB ☐1PB**na** ☐500PB

☑250PB ☑250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☑(3)100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ Labeled/Checked by: 846

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:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered Scanned by: 862

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