CITY OF MOUNTAIN VIEW

FIRE DEPARTMENT-CLASS 1 • FIRE AND ENVIRONMENTAL PROTECTION DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, California 94041-2010
650-903-6378 • FAX 650-962-1430

July 3, 2019

Matt Bacon
501 Ellis Street Groundwater Extraction S
1111 Broadway, 6th Floor
Oakland, CA 94607
for: 501 Ellis Street

DUE DATE: July 24, 2019

Liquid Waste Discharge Monitoring Program

Periodic Report of Continued Compliance (PRCC)

for Reporting Period: 1/1/19 to 6/30/19

Dear Wastewater Discharge Permittee:

Enclosed is your Periodic Report of Continued Compliance (PRCC) for January 1, 2019 through June 30, 2019. The PRCC consists of three sets of documents: 1) a summary of your self-monitoring analysis conducted during the reporting period for wastewater discharged to the City sanitary sewer; 2) a Certification page; and 3) a summary of your wastewater discharge processes (flow diagrams) including average and maximum daily flows.

To complete the PRCC, follow these steps:

1. Review all information and make sure it is accurate. Especially review the analytical results and flow diagrams for accuracy. Update any incorrect information with a red pen. (Note: if you add any new or missing analytical results, attach a hard copy of the analysis and chain of custody form).

2. Complete the "Comments/Explanation" section ONLY if the frequency of your analytical results does not match the frequency specified on the front page. (For example, if you were required to analyze for TTO monthly, but had no analytical results for July because you did not discharge any wastewater, explain in the "Comments/Explanation" section that July analysis are missing because no wastewater discharge occurred that month). Attach your wastewater flow log and pH meter chart if requested to do so.

3. Sign and date the certification form in the space provided. If a Toxic Organic Management Plan (TOMP) is enclosed, please review and sign it also.

4. Return the signed and corrected forms to the above address **no later than Wednesday, July 24, 2019.**

If you have any questions please contact Water Environment Specialist-Carrie Sandahl at the above number.

Sincerely,

Jaymae Wentker
Fire Marshal

Recycled Paper

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FIRE AND ENVIRONMENTAL PROTECTION DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

Business Name

501 Ellis Street Groundwater Extraction System

Facility ID: **925**
EPA Category:
EPA Reference:

Facility Street Address

501 Ellis Street

Periodic Report of Continued Compliance (PRCC)
From: 1/1/2019 to 6/30/2019

PERMIT REQUIREMENTS				SAMPLING ANALYSIS					
Sample Parameter	Sample Location[1]	Sample Type	Sample Frequency	Sample Date	Flow (GPD)	Analysis (mg/L)	Det. Limit (mg/L)	Local Limit (mg/L)	Violation[2]
Single Toxic Organic	A1	Grab	Quarterly						
				3/4/2019	~~3,720~~ 6,424 NB	0.054	0.001	.75	
				6/20/2019	5,891	0.057	0.0005	.75	
Total Dissolved Solids	A1	Grab	Quarterly						
				3/4/2019	~~3,720~~ 6,424 NB	750	10	10000	
				6/20/2019	5,891	840	10	10000	
Total Toxic Organics	A1	Grab	Quarterly						
				3/4/2019	~~3,720~~ 6,424 NB	0.0807	0.0005	1	
				6/20/2019	5,891	0.085	0.0005	1	

[1] Sampling Location A1 is in the northwest corner of the treatment pad.
[2] An asterisk in this column indicates a discharge violation.

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FIRE AND ENVIRONMENTAL PROTECTION DIVISION
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Business Name

501 Ellis Street Groundwater Extraction System

Facility ID: **925**
EPA Category:
EPA Reference:

Facility Street Address

501 Ellis Street

Periodic Report of Continued Compliance (PRCC)
From: 1/1/2019 to 6/30/2019

COMMENTS/EXPLANATION FOR MISSING WASTEWATER ANALYSIS:

I certify that the wastes discharged during the reporting period do not constitute hazardous waste under Chapter 6.5 of the Health and Safety Code [Sec. 25115 and 25117] and Title 22 of the California Code of Regulations [Sec. 66680-66746] at the point of discharge into the City sanitary sewer system. If I am a zero discharger, I certify that I have not discharged any categorical wastes and will not discharge them without prior notification to the City.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. [40 CFR 403.12(l)]

SIGNATURE OF RESPONSIBLE PERSON:

Matt Bacon
Name (type or print)

Signature

Professional Scientist
Title

8/9/2019
Date

ATTACH THE FOLLOWING DOCUMENTATION:

- [x] Wastewater discharge flow meter readings/log for last 6 months.
- [ ] Wastewater discharge pH readings/log for last 6 months.
- [ ] Waste manifest for sumps cleaning & sludge removal within last year.
- [ ] Wastewater treatment/discharge log for Formaldehyde for last 6 months.
- [ ] Wastewater treatment/discharge log for Gluteraldehyde for last 6 months.

CITY OF MOUNTAIN VIEW
FIRE AND ENVIRONMENTAL SAFETY DIVISION
500 Castro Street • City Hall • 4th Floor • Mountain View, CA 94041-2010 • 650-903-6378

Wastewater Process Discharge

Facility ID:	925
Updated:	4/24/2018

Business Name

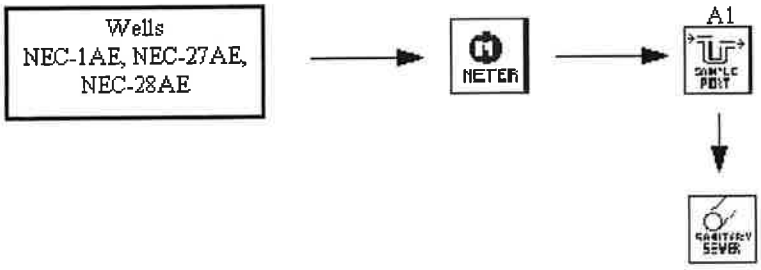
501 Ellis Street Groundwater Extraction System

Facility Street Address

501 Ellis Street

Discharge Activity Name: Groundwater Extraction Wells **Activity** 1 **of** 1

Discharge Source (Map Location): Wells NEC-1AE, NEC-27AE, NEC-28AE **RCMs Required?** No



Sanitary Sewer Discharge Data:

Average Daily Flow: 7,460 **GPD** **Maximum Daily Flow:** 9,560 **GPD** **Sample Port:** A1

REASONABLE CONTROL MEASURES (RCMs)

This section does NOT APPLY to this wastewater process discharge.

Control of Bath Make-Up

	Select Best Bath Chemistry
	Use Standard Recipes
	Use De-Ionized Water

Extension of Bath Life

	Bath Purification
	High Purity Anodes
	Change Bath by Analysis
	Purifiable Bath Chemistry

Pretreatment of Spent Baths

	Electrowin Spent Baths, or
	Batch Treat Spent Bath

Minimization of Drag-In

	Efficient Pre-Cleaning of Parts
	Use Coated Racks
	Optimization of Prior Processes
	Use Drag-In/Drag-Out Sequence

Flow Control

	Conductivity Controller, or
	Flow Timer, or
	Contact Switch

Countercurrent Rinsing

	Separate Tank, or
	Divide Existing Tank, or
	Spray Over Existing Tank

Minimization of Drag-Out

	Static Drag-Out Tank
	Spray Rinse, or
	Squeege, or
	Air Knives
	Drain Boards
	Splash Guard
	Drip Bar, or
	Increased Dwell Time
	Recapture Drag Out

Substitutes/Comments

_____

_____

_____

TABLE 2
FIRST QUARTER 2019
GROUNDWATER TREATMENT SYSTEM DISCHARGE
RENESAS ELECTRONICS AMERICA, INC.
501 ELLIS STREET, MOUNTAIN VIEW, CALIFORNIA

Date & Time	Discharge Meter Reading (gal)	Average Flowrate	
		(gal/day)	(gpm)
1/30/2019 10:35	47,995,760	5,654	3.93
2/28/2019 14:30	48,172,410	6,057	4.21
3/29/2019 12:35	48,358,190	6,424	4.46

TABLE 2 SECOND QUARTER 2019 GROUNDWATER TREATMENT SYSTEM DISCHARGE RENESAS ELECTRONICS AMERICA, INC. 501 ELLIS STREET, MOUNTAIN VIEW, CALIFORNIA			
Date & Time	Discharge Meter Reading (gal)	Average Flowrate	
		(gal/day)	(gpm)
4/29/2019 13:24	48,532,160	5,920	4.11
5/31/2019 10:40	48,721,390	5,935	4.12
6/28/2019 10:00	48,886,170	5,891	4.09

ea

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 307905
ANALYTICAL REPORT

Locus Technologies 299 Fairchild Dr. Mountain View, CA 94043	Project : 98007-99-2200 Location : NEC Level : II

Sample ID	Lab ID
271NEC-EFT	307905-001
TRIP BLANK	307905-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/12/2019

Haley Campbell
Project Manager
haley.campbell@enthalpy.com

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**307905**
Client:	**Locus Technologies**
Project:	**98007-99-2200**
Location:	**NEC**
Request Date:	**03/05/19**
Samples Received:	**03/05/19**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 03/05/19. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Locus TECHNOLOGIES

CHAIN-OF-CUSTODY RECORD (See Reverse for Instructions)

307905

SERIAL NO. 15134

PROJECT NAME: NEC

PROJECT NUMBER: 98007-99-3200

RECORDER: (SIGN)

SAMPLERS: Henry Castro Jr. (PRINT)

(SIGN)

SAMPLE CONTAINER DESCRIPTION CODES	SAMPLE DESCRIPTION CODES	TAT CODES
A. 40-ml VOA Vial	A. Ground Water	1. Standard
B. Glass Liter 250	B. Surface Water	2. 48 Hour
C. Plastic ~~500 ml~~	C. Leachate	3. 24 Hour
D. Plastic Liter	D. Rinseate	4. Other
E. Brass Tube	E. Soil/Sediment	
F. Other	F. Oil	
	G. Waste	
	H. Blank/Spike	
	I. Other	

ANALYTICAL LAB: EA

NO.	DATE	TIME	SAMPLE ID	AVERAGE TEMP °C	AVERAGE COND micromhos/cm	AVERAGE pH	Sample container (enter code)	Sample Description (enter code)	Unpreserved	HNO_3	HCL	Field Filtered (check)	EPA624+cis-1,2-DCE+MTBE	TDS	Temperature	TAT Requested (enter code)	Maximum Holding Time for Method Requested	Sample Store at 4°C (Check)	No VOA Headspace (Check)	NOTES	ASSIGNED BOTTLE NUMBERS	SAMPLE CONDITION UPON RECEIPT
1	3-4-19	1140	271 NEC-EFT				A	A			3		X	X								
2	↓	1140	" " "				C	A	1						X							
3		N/A	Trip Blank				A	H			3		X	X								
4		N/A	Temp Blank				F	H	1						X					*		
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

LABORATORY USE ONLY

LAB PROJECT NO.

NOTES / MISCELLANEOUS

Field / Container Temp.

* **NOTE! Temperature to be measured and recorded upon receipt of samples at lab.** 4.5 °C

Container Sealed with Custody Seal: Yes ☐ No ☐

Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Received By: (Signature)	Date	Time

Method of Shipment	Description of Transport Container	Other Chains-of-Custody Transported with this Chain (by Serial No.)	Dispatched By: (Signature)	Date	Time	Received for lab By: (Signature)	Date	Time
				3-5-19	13:00		3-5	1300

Send Lab Results to (Name): Nancy Jeanne Le Fevre (Check Office Below) Verbals Requested: Yes ☐ No ☐

☐ MOUNTAIN VIEW • 299 FAIRCHILD DRIVE • MTN VIEW, CA 94043 • TEL (650) 960-1640 • FAX (650) 960-0729

☐ WALNUT CREEK • 1701 N. CALIFORNIA BLVD • WALNUT CREEK, CA 94596 • TEL (925) 906-8100 • FAX (925) 906-8101

☐ SACRAMENTO • 1100 MELODY LANE • ROSEVILLE, CA 95678 • TEL (916) 677-1751 • FAX (916) 677-1760

☐ OTHER _____ TEL _____ FAX _____

3/5/19 14:41

REV. 6/02

WHITE: Laboratory Copy YELLOW: Project Copy PINK: Database Copy

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 307905 Client: LOWS

Date Received: 3/5/19 Project: _____

ENTHALPY ANALYTICAL

Section 2: Samples received in a cooler? ☑ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ A, or ☐ B

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 3/5/19 By (print) AR (sign) [signature]

Shipping Info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☑ N/A

Section 3: *Important*: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☑ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☑ B

Cooler Temp (°C): #1: 4.5, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?	✓		
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			✓
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged In 3/5/19 By (print) AC (sign) [signature]

Date Labeled 3/5/19 By (print) AC (sign) [signature]

ENTHALPY ANALYTICAL

Detections Summary for 307905

Results for any subcontracted analyses are not included in this summary.

Client : Locus Technologies
Project : 98007-99-2200
Location : NEC

Client Sample ID : 271NEC-EFT Laboratory Sample ID : 307905-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
trans-1,2-Dichloroethene	5.7		0.5	ug/L	As Recd	1.000	EPA 624	EPA 624
cis-1,2-Dichloroethene	21		0.5	ug/L	As Recd	1.000	EPA 624	EPA 624
Trichloroethene	54		1.0	ug/L	As Recd	2.000	EPA 624	EPA 624
Total Dissolved Solids	750		10	mg/L	TOTAL	1.000	SM2540C	METHOD

Client Sample ID : TRIP BLANK Laboratory Sample ID : 307905-002

No Detections

ENTHALPY ANALYTICAL

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Field ID:	271NEC-EFT	Units:	ug/L
Lab ID:	307905-001	Sampled:	03/04/19
Matrix:	Water	Received:	03/05/19

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	1.000	268441	03/08/19
Vinyl Chloride	ND	0.5	1.000	268441	03/08/19
Bromomethane	ND	1.0	1.000	268441	03/08/19
Chloroethane	ND	1.0	1.000	268441	03/08/19
Trichlorofluoromethane	ND	1.0	1.000	268441	03/08/19
1,1-Dichloroethene	ND	0.5	1.000	268441	03/08/19
Methylene Chloride	ND	10	1.000	268441	03/08/19
MTBE	ND	0.5	1.000	268441	03/08/19
trans-1,2-Dichloroethene	5.7	0.5	1.000	268441	03/08/19
1,1-Dichloroethane	ND	0.5	1.000	268441	03/08/19
cis-1,2-Dichloroethene	21	0.5	1.000	268441	03/08/19
Chloroform	ND	0.5	1.000	268441	03/08/19
1,1,1-Trichloroethane	ND	0.5	1.000	268441	03/08/19
Carbon Tetrachloride	ND	0.5	1.000	268441	03/08/19
1,2-Dichloroethane	ND	0.5	1.000	268441	03/08/19
Benzene	ND	0.5	1.000	268441	03/08/19
Trichloroethene	54	1.0	2.000	268494	03/11/19
1,2-Dichloropropane	ND	0.5	1.000	268441	03/08/19
Bromodichloromethane	ND	0.5	1.000	268441	03/08/19
cis-1,3-Dichloropropene	ND	0.5	1.000	268441	03/08/19
Toluene	ND	0.5	1.000	268441	03/08/19
trans-1,3-Dichloropropene	ND	0.5	1.000	268441	03/08/19
1,1,2-Trichloroethane	ND	0.5	1.000	268441	03/08/19
Tetrachloroethene	ND	0.5	1.000	268441	03/08/19
Dibromochloromethane	ND	0.5	1.000	268441	03/08/19
Chlorobenzene	ND	0.5	1.000	268441	03/08/19
Ethylbenzene	ND	0.5	1.000	268441	03/08/19
Bromoform	ND	1.0	1.000	268441	03/08/19
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	268441	03/08/19
1,3-Dichlorobenzene	ND	0.5	1.000	268441	03/08/19
1,4-Dichlorobenzene	ND	0.5	1.000	268441	03/08/19
1,2-Dichlorobenzene	ND	0.5	1.000	268441	03/08/19

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	103	80-121	1.000	268441	03/08/19
1,2-Dichloroethane-d4	97	80-134	1.000	268441	03/08/19
Toluene-d8	93	80-120	1.000	268441	03/08/19
Bromofluorobenzene	99	80-120	1.000	268441	03/08/19

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Field ID:	TRIP BLANK	Batch#:	268441
Lab ID:	307905-002	Sampled:	03/04/19
Matrix:	Water	Received:	03/05/19
Units:	ug/L	Analyzed:	03/08/19
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-121
1,2-Dichloroethane-d4	97	80-134
Toluene-d8	93	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC967563	Batch#:	268441
Matrix:	Water	Analyzed:	03/08/19
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	99	80-134
Toluene-d8	93	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Matrix:	Water	Batch#:	268441
Units:	ug/L	Analyzed:	03/08/19
Diln Fac:	1.000		

Type: BS Lab ID: QC967564

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	15.00	14.79	99	65-133
Benzene	15.00	15.75	105	75-122
Trichloroethene	15.00	14.70	98	73-121
Toluene	15.00	14.21	95	78-120
Chlorobenzene	15.00	14.63	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	98	80-134
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC967565

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	15.00	14.12	94	65-133	5	23
Benzene	15.00	15.68	105	75-122	0	20
Trichloroethene	15.00	14.68	98	73-121	0	20
Toluene	15.00	13.90	93	78-120	2	20
Chlorobenzene	15.00	14.45	96	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	98	80-134
Toluene-d8	93	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC967800	Batch#:	268494
Matrix:	Water	Analyzed:	03/11/19
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-121
1,2-Dichloroethane-d4	99	80-134
Toluene-d8	87	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Enthalpy Analytical - Berkeley Analytical Report

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	EPA 624
Project#:	98007-99-2200	Analysis:	EPA 624
Matrix:	Water	Batch#:	268494
Units:	ug/L	Analyzed:	03/11/19
Diln Fac:	1.000		

Type: BS Lab ID: QC967801

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	15.00	15.87	106	65-133
Benzene	15.00	16.30	109	75-122
Trichloroethene	15.00	15.56	104	73-121
Toluene	15.00	13.83	92	78-120
Chlorobenzene	15.00	14.21	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	98	80-134
Toluene-d8	90	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC967802

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	15.00	15.76	105	65-133	1	23
Benzene	15.00	16.09	107	75-122	1	20
Trichloroethene	15.00	15.42	103	73-121	1	20
Toluene	15.00	13.62	91	78-120	2	20
Chlorobenzene	15.00	14.17	94	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-121
1,2-Dichloroethane-d4	97	80-134
Toluene-d8	89	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Total Dissolved Solids (TDS)

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	METHOD
Project#:	98007-99-2200	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Batch#:	268380
Field ID:	271NEC-EFT	Sampled:	03/04/19
Matrix:	Water	Received:	03/05/19
Units:	mg/L	Prepared:	03/06/19
Diln Fac:	1.000	Analyzed:	03/07/19

Type	Lab ID	Result	RL
SAMPLE	307905-001	750	10
BLANK	QC967327	ND	10

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	307905	Location:	NEC
Client:	Locus Technologies	Prep:	METHOD
Project#:	98007-99-2200	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Batch#:	268380
Field ID:	ZZZZZZZZZZ	Sampled:	02/28/19
MSS Lab ID:	307779-002	Received:	03/01/19
Matrix:	Water	Prepared:	03/06/19
Units:	mg/L	Analyzed:	03/07/19
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC967328		90.20	86.00		95	80-121		
BSD	QC967329		90.20	88.00		98	80-121	2	5
SDUP	QC967330	1,054		1,052	10.00			0	5

RL= Reporting Limit
RPD= Relative Percent Difference

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

Laboratory Job ID: 720-93627-1
Client Project/Site: NEC
Revision: 1

For:
Locus Technologies
299 Fairchild Drive
Mountain View, California 94043

Attn: Nancy-Jeanne LeFevre

Authorized for release by:
7/18/2019 11:23:31 AM
Nathaniel Horner, Project Management Assistant I
nathaniel.horner@testamericainc.com

Designee for

Micah Smith, Project Manager II
(925)484-1919
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-93627-1

Laboratory: Eurofins TestAmerica, Pleasanton

Narrative

Job Narrative
720-93627-1

Revision 1
This report was revised on 7/18/19 in order to remove a nonconformance that did not apply to this job.

Comments
No additional comments.

Receipt
The sample was received on 6/20/2019 12:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Client Sample ID: 272NEC-EFT

Lab Sample ID: 720-93627-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	6.5		0.50		ug/L	1		624	Total/NA
Trichloroethene	57		0.50		ug/L	1		624	Total/NA
cis-1,2-Dichloroethene	22		0.50		ug/L	1		624	Total/NA
Total Dissolved Solids	840		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Client Sample ID: 272NEC-EFT

Date Collected: 06/20/19 08:55
Date Received: 06/20/19 12:50

Lab Sample ID: 720-93627-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50		ug/L			07/02/19 12:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/02/19 12:57	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/02/19 12:57	1
1,1-Dichloroethane	ND		0.50		ug/L			07/02/19 12:57	1
1,1-Dichloroethene	ND		0.50		ug/L			07/02/19 12:57	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/02/19 12:57	1
1,2-Dichloroethane	ND		0.50		ug/L			07/02/19 12:57	1
1,2-Dichloropropane	ND		0.50		ug/L			07/02/19 12:57	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/02/19 12:57	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/02/19 12:57	1
Benzene	ND		0.50		ug/L			07/02/19 12:57	1
Bromoform	ND		1.0		ug/L			07/02/19 12:57	1
Bromomethane	ND		0.50		ug/L			07/02/19 12:57	1
Carbon tetrachloride	ND		0.50		ug/L			07/02/19 12:57	1
Chlorobenzene	ND		0.50		ug/L			07/02/19 12:57	1
Dibromochloromethane	ND		0.50		ug/L			07/02/19 12:57	1
Chloroethane	ND		1.0		ug/L			07/02/19 12:57	1
Chloroform	ND		0.50		ug/L			07/02/19 12:57	1
Chloromethane	ND		0.50		ug/L			07/02/19 12:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/02/19 12:57	1
Bromodichloromethane	ND		0.50		ug/L			07/02/19 12:57	1
Ethylbenzene	ND		0.50		ug/L			07/02/19 12:57	1
Methylene Chloride	ND		2.0		ug/L			07/02/19 12:57	1
Tetrachloroethene	ND		0.50		ug/L			07/02/19 12:57	1
Toluene	ND		0.50		ug/L			07/02/19 12:57	1
trans-1,2-Dichloroethene	**6.5**		0.50		ug/L			07/02/19 12:57	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/02/19 12:57	1
Trichlorofluoromethane	ND		0.50		ug/L			07/02/19 12:57	1
Vinyl chloride	ND		0.50		ug/L			07/02/19 12:57	1
Trichloroethene	**57**		0.50		ug/L			07/02/19 12:57	1
cis-1,2-Dichloroethene	**22**		0.50		ug/L			07/02/19 12:57	1
Methyl tert-butyl ether	ND		0.50		ug/L			07/02/19 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*07/02/19 12:57*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*07/02/19 12:57*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*07/02/19 12:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**840**		10		mg/L			06/24/19 09:00	1

Surrogate Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	**Client Sample ID**	**BFB (80-120)**	**DBFM (76-132)**	**TOL (80-128)**
720-93627-1	272NEC-EFT	120	96	107
LCS 440-555711/5	Lab Control Sample	116	91	105
MB 440-555711/4	Method Blank	120	91	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-555711/4
Matrix: Water
Analysis Batch: 555711

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50		ug/L			07/02/19 08:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/02/19 08:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/02/19 08:24	1
1,1-Dichloroethane	ND		0.50		ug/L			07/02/19 08:24	1
1,1-Dichloroethene	ND		0.50		ug/L			07/02/19 08:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/02/19 08:24	1
1,2-Dichloroethane	ND		0.50		ug/L			07/02/19 08:24	1
1,2-Dichloropropane	ND		0.50		ug/L			07/02/19 08:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/02/19 08:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/02/19 08:24	1
Benzene	ND		0.50		ug/L			07/02/19 08:24	1
Bromoform	ND		1.0		ug/L			07/02/19 08:24	1
Bromomethane	ND		0.50		ug/L			07/02/19 08:24	1
Carbon tetrachloride	ND		0.50		ug/L			07/02/19 08:24	1
Chlorobenzene	ND		0.50		ug/L			07/02/19 08:24	1
Dibromochloromethane	ND		0.50		ug/L			07/02/19 08:24	1
Chloroethane	ND		1.0		ug/L			07/02/19 08:24	1
Chloroform	ND		0.50		ug/L			07/02/19 08:24	1
Chloromethane	ND		0.50		ug/L			07/02/19 08:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/02/19 08:24	1
Bromodichloromethane	ND		0.50		ug/L			07/02/19 08:24	1
Ethylbenzene	ND		0.50		ug/L			07/02/19 08:24	1
Methylene Chloride	ND		2.0		ug/L			07/02/19 08:24	1
Tetrachloroethene	ND		0.50		ug/L			07/02/19 08:24	1
Toluene	ND		0.50		ug/L			07/02/19 08:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/02/19 08:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/02/19 08:24	1
Trichlorofluoromethane	ND		0.50		ug/L			07/02/19 08:24	1
Vinyl chloride	ND		0.50		ug/L			07/02/19 08:24	1
Trichloroethene	ND		0.50		ug/L			07/02/19 08:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/02/19 08:24	1
Methyl tert-butyl ether	ND		0.50		ug/L			07/02/19 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*07/02/19 08:24*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*07/02/19 08:24*	*1*
Toluene-d8 (Surr)	*110*		*80 - 128*		*07/02/19 08:24*	*1*

Lab Sample ID: LCS 440-555711/5
Matrix: Water
Analysis Batch: 555711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	63 - 130
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	23.2		ug/L		93	64 - 130
1,1-Dichloroethene	25.0	26.1		ug/L		104	70 - 130

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-555711/5
Matrix: Water
Analysis Batch: 555711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	23.3		ug/L		93	57 - 138
1,2-Dichloropropane	25.0	22.7		ug/L		91	67 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
Benzene	25.0	23.7		ug/L		95	68 - 130
Bromoform	25.0	17.9		ug/L		72	60 - 148
Bromomethane	25.0	20.5		ug/L		82	64 - 139
Carbon tetrachloride	25.0	26.4		ug/L		106	60 - 150
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Dibromochloromethane	25.0	22.9		ug/L		92	69 - 145
Chloroethane	25.0	21.6		ug/L		87	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	16.1		ug/L		65	47 - 140
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 133
Bromodichloromethane	25.0	24.9		ug/L		100	70 - 132
Ethylbenzene	25.0	26.5		ug/L		106	70 - 130
Methylene Chloride	25.0	22.9		ug/L		92	52 - 130
Tetrachloroethene	25.0	22.3		ug/L		89	70 - 130
Toluene	25.0	25.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 132
Trichlorofluoromethane	25.0	29.4		ug/L		118	60 - 150
Vinyl chloride	25.0	20.4		ug/L		82	59 - 133
Trichloroethene	25.0	23.3		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	70 - 133
Methyl tert-butyl ether	25.0	25.6		ug/L		102	63 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*76 - 132*
Toluene-d8 (Surr)	*105*		*80 - 128*

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-554202/1
Matrix: Water
Analysis Batch: 554202

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			06/24/19 09:00	1

Lab Sample ID: LCS 440-554202/2
Matrix: Water
Analysis Batch: 554202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	986		mg/L		99	90 - 110

QC Association Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

GC/MS VOA

Analysis Batch: 555711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-93627-1	272NEC-EFT	Total/NA	Water	624	
MB 440-555711/4	Method Blank	Total/NA	Water	624	
LCS 440-555711/5	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Analysis Batch: 554202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-93627-1	272NEC-EFT	Total/NA	Water	SM 2540C	
MB 440-554202/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-554202/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Client Sample ID: 272NEC-EFT

Date Collected: 06/20/19 08:55
Date Received: 06/20/19 12:50

Lab Sample ID: 720-93627-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	555711	07/02/19 12:57	RM	TAL IRV
Total/NA	Analysis	SM 2540C		1	554202	06/24/19 09:00	XL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Accreditation/Certification Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Laboratory: Eurofins TestAmerica, Pleasanton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20
USDA	Federal		P330-17-00380	12-11-20

Laboratory: Eurofins TestAmerica, Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-20
Arizona	State Program	9	AZ0671	10-14-19
California	LA Cty Sanitation Districts	9	10256	06-30-20
California	State Program	9	CA ELAP 2706	06-30-19 *
Guam	State Program	9	Cert. No. 19-005R	01-23-20
Hawaii	State Program	9	N/A	01-29-20
Kansas	NELAP	7	E-10420	07-31-19 *
Nevada	State Program	9	CA015312019-5	07-31-19 *
New Mexico	State Program	6	N/A	01-29-20
Oregon	NELAP	10	4028	01-29-20
US Fish & Wildlife	Federal		058448	07-31-19 *
USDA	Federal		P330-18-00214	07-09-21
Washington	State Program	10	C900	09-03-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Sample Summary

Client: Locus Technologies
Project/Site: NEC

Job ID: 720-93627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
720-93627-1	272NEC-EFT	Water	06/20/19 08:55	06/20/19 12:50	

Locus TECHNOLOGIES

CHAIN-OF-CUSTODY RECORD (See Reverse for Instructions)

#190850

SERIAL NO. 15136

PROJECT NAME: NEC

PROJECT NUMBER: 98007-99-2200

RECORDER: (SIGN)

SAMPLERS: Henry Castro Jr. (PRINT)

(SIGN)

720-93627

SAMPLE CONTAINER DESCRIPTION CODES	SAMPLE DESCRIPTION CODES	TAT CODES
A. 40-ml VOA Vial	A. Ground Water	1. Standard
B. Glass Liter 250	B. Surface Water	2. 48 Hour
C. Plastic 500-ml	C. Leachate	3. 24 Hour
D. Plastic Liter	D. Rinseate	4. Other
E. Brass Tube	E. Soil/Sediment	
F. Other	F. Oil	
	G. Waste	
	H. Blank/Spike	
	I. Other	

ANALYTICAL LAB: Test America

NO.	DATE	TIME	SAMPLE ID	AVERAGE TEMP °C	AVERAGE COND micromhos/cm	AVERAGE pH	Sample container (enter code)	Sample Description (enter code)	Unpreserved	HNO_3	HCL	Field Filtered (check)	EPA 624 CIS-1,2-DCE+MTBE	TDS	TAT Requested (enter code)	Maximum Holding Time for Method Requested	Sample Store at 4°C (Check)	No VOA Headspace (Check)	NOTES	ASSIGNED BOTTLE NUMBERS	SAMPLE CONDITION UPON RECEIPT
1	6-2019	855	272 NEC-EFT				A	A			3		X	X							
2	6-2019	855	" " "				C	A	1					X							
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

LABORATORY USE ONLY

LAB PROJECT NO.

720-93627 Chain of Custody

NOTES / MISCELLANEOUS: 4.3c

Field / Container Temp.

Relinquished By: (Signature)	Received By: (Signature)	Date	Time
[signature]	[signature]	6/20/19	1125
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
James Q Lavender	[signature]	6/20/19	1250
Relinquished By: (Signature)	Received By: (Signature)	Date	Time

Container Sealed with Custody Seal: Yes ☐ No ☐

Method of Shipment	Description of Transport Container	Other Chains-of-Custody Transported with this Chain (by Serial No.)	Dispatched By: (Signature)	Date	Time	Received for lab By: (Signature)	Date	Time
			[signature]	6-2019				

Send Lab Results to (Name): Nancy Jeanne Lefeure (Check Office Below) Verbals Requested: Yes ☐ No ☐

☐ MOUNTAIN VIEW • 299 FAIRCHILD DRIVE • MTN VIEW, CA 94043 • TEL (650) 960-1640 • FAX (650) 960-0739

☐ WALNUT CREEK • 1701 N. CALIFORNIA BLVD • WALNUT CREEK, CA 94596 • TEL (925) 906-8100 • FAX (925) 906-8101

☐ SACRAMENTO • 1100 MELODY LANE • ROSEVILLE, CA 95678 • TEL (916) 677-1751 • FAX (916) 677-1760

☐ OTHER _____ TEL _____ FAX _____

WHITE: Laboratory Copy YELLOW: Project Copy PINK: Database Copy

REV. 6/02

Eurofins TestAmerica, Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone 925-484-1919 Fax 925-600-3002

Chain of Custody Record

eurofins
Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 720-42587.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: micah.smith@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 720-93627-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: NEC	Project #: 72014506			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	624_LL/ 624 + cis-1,2-DCE, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
272NEC-EFT (720-93627-1)	6/20/19	08:55 Pacific		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	6/21/19 1301	TAPS		6/22/19 1100	TAPS
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4926 4509 6879	Cooler Temperature(s) °C and Other Remarks: 3.4/3.8 IR89

Ver 01/16/2019

Login Sample Receipt Checklist

Client: Locus Technologies

Job Number: 720-93627-1

Login Number: 93627
List Number: 1
Creator: Arauz, Dennis

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Locus Technologies

Job Number: 720-93627-1

Login Number: 93627
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins TestAmerica, Irvine
List Creation: 06/22/19 02:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	