

APPENDIX B

RVSS WATER REPORTS FOR
STORMWATER SAMPLES COLLECTED ON:

11/15/2020

12/30/2020

03/05/2021



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

November 30, 2020

Jennie Morgan
Rogue Valley Sewer Services
138 West Vilas Rd
Central Point, OR 97502
TEL: (541) 226-4156
FAX:

RE: Alameda

Order No.: 20110729

Dear Jennie Morgan:

Neilson Research Corporation received 2 sample(s) on 11/16/2020 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501



Original



Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: 20110729
Date: 11/30/2020

CLIENT: Rogue Valley Sewer Services

Project: Alameda

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

GENERAL CHEMISTRY

Holding Time

The pH was not received within the method specified holding time.

Digestion Exceptions:

None

Analysis:

- A. Method Blank(s): MB
MB criteria were met.
- B. Matrix Spike Sample(s): MS
MS criteria were met
- C. Duplicate Sample(s) Dup and/or MSD
Dup and/or MSD criteria were met
- D. Lab Control Sample(s) LCS
LCS criteria were met

Original



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Analytical Report

WO#: 20110729
 Date Reported: 11/30/2020

Rogue Valley Sewer Services
 138 West Vilas Rd
 Central Point, OR 97502

Lab ID: 20110729-01
 Collection Date: 11/15/2020 2:00:00 PM
 Received Date: 11/16/2020 12:58:00 PM

Sample Information:

Client Sample ID: Northridge Terrace
 Sample Collector: Jennie Morgan
 Matrix: DRINKING WATER
 Source:
 Sample Location: Grab

Top 35 Analysis TM

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	EPA Limit	Date Analyzed	Analyst
Aluminum	E200.7	A	0.693	*	1	0.0200	mg/L	0.200	11/19/20 16:00	KMC
Antimony	E200.8	A	0.000665		1	0.000500	mg/L	0.00600	11/18/20 21:35	SJS
Arsenic	E200.8	A	0.00188		1	0.00100	mg/L	0.0100	11/18/20 21:35	SJS
Barium	E200.8	A	0.0129		1	0.000500	mg/L	2.00	11/18/20 21:35	SJS
Beryllium	E200.7	A	ND		1	0.000500	mg/L	0.00400	11/19/20 16:00	KMC
Boron	E200.7	A	ND		1	0.0500	mg/L		11/19/20 16:00	KMC
Cadmium	E200.8	A	ND		1	0.000100	mg/L	0.00500	11/18/20 21:35	SJS
Calcium	E200.7	A	4.24		1	1.00	mg/L		11/19/20 16:00	KMC
Chloride	E300.0	A	ND		1	1.00	mg/L	250	11/17/20 3:25	KEC
Chromium	E200.8	A	0.00206		1	0.00100	mg/L	0.100	11/18/20 21:35	SJS
Copper	E200.8	A	0.00648		1	0.000500	mg/L	1.30	11/18/20 21:35	SJS
Fluoride	E300.0	A	ND		1	0.200	mg/L	4.00	11/17/20 3:25	KEC
Hardness, Total (As CaCO3)	A2340B	A	10.6		1	6.62	mg/L	250	11/19/20 16:00	KMC
Iron	E200.7	A	0.709	*	1	0.0150	mg/L	0.300	11/19/20 16:00	KMC
Lead	E200.8	A	0.00150		1	0.000100	mg/L	0.0150	11/18/20 21:35	SJS
Lithium	E200.7	A	ND		1	0.100	mg/L		11/19/20 16:00	KMC
Magnesium	E200.7	A	ND		1	1.00	mg/L		11/19/20 16:00	KMC
Manganese	E200.7	A	0.0317		1	0.0200	mg/L	0.0500	11/19/20 16:00	KMC
Molybdenum	E200.8	A	ND		1	0.00100	mg/L		11/18/20 21:35	SJS
Nickel	E200.8	A	0.00143		1	0.000500	mg/L	0.100	11/18/20 21:35	SJS

QUALIFIERS

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- C1 Sample container temperature is out of limit as specified at testcod
- H Holding times for preparation or analysis exceeded
- MI Recovery outside control limits due to Matrix Interference
- PL Permit Limit

NELAP A Accredited. ORELAP 100016, OR-028

Original

Results are out of the EPA limits



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 Matrix: DRINKING WATER
 Source:
 Sample Location: Grab

Top 35 Analysis TM

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	EPA Limit	Date Analyzed	Analyst
Nitrogen, Nitrate	E300.0	A	ND		1	0.200	mg/L	10.0	11/17/20 3:25	KEC
Nitrogen, Nitrite	E300.0	A	ND		1	0.0500	mg/L	1.00	11/17/20 3:25	KEC
pH	A4500-H+B	A	6.74	HR	1	0.10	pH Units	6.50-8.50	11/16/20 16:22	DLM
Potassium	E200.7	A	1.33		1	1.00	mg/L		11/19/20 16:00	KMC
Selenium	E200.8	A	ND		1	0.00100	mg/L	0.0500	11/18/20 21:35	SJS
Silica	E200.7	A	4.63		1	2.14	mg/L		11/19/20 16:00	KMC
Silver	E200.8	A	ND		1	0.000500	mg/L	0.100	11/18/20 21:35	SJS
Sodium	E200.7	A	3.49		1	1.00	mg/L	200	11/19/20 16:00	KMC
Specific Conductance	A2510B	A	24.2		1	1.00	µmhos/cm		11/16/20 16:22	DLM
Sulfate	E300.0	A	0.693		1	0.500	mg/L	250	11/17/20 3:25	KEC
Thallium	E200.8	A	ND		1	0.000500	mg/L	0.00200	11/18/20 21:35	SJS
Turbidity	A2130	A	5.39	*	1	0.100	NTU	1.00-5.00	11/16/20 17:43	DLM
Uranium	E200.8	A	ND		1	0.000100	mg/L	0.0300	11/18/20 21:35	SJS
Vanadium	E200.8	A	ND		1	0.00500	mg/L		11/18/20 21:35	SJS
Zinc	E200.7	A	ND		1	0.0500	mg/L	5.00	11/19/20 16:00	KMC

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Original

Results are out of the EPA limits



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Analytical Report

WO#: 20110729
 Date Reported: 11/30/2020

CLIENT: Rogue Valley Sewer Services
Lab ID: 20110729-01B
Client Sample ID Northridge Terrace
Project: Alameda
Sample Location: Grab
Sample Address:

Collection Date: 11/15/2020 2:00:00 PM
Received Date: 11/16/2020 12:58:00 PM
Matrix: DRINKING WATER
PWS #:
Source ID:
Sample Collector: JENNIE MORGAN

Analyses	Code	Method	NELAP		Qual		RL Units	Date		Analyst
			Status	Result	DF	MCL		Analyzed		
Organic Carbon, Total	2920	A5310C	A	5.12	1	0.100 mg/L		11/20/20 11:22	SJS	

QUALIFIERS

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

C1 Sample container temperature is out of limit as specified at testcode
 MI Recovery outside control limits due to Matrix Interference
 PL Permit Limit

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Analytical Report

WO#: 20110729
 Date Reported: 11/30/2020

Rogue Valley Sewer Services
 138 West Vilas Rd
 Central Point, OR 97502

Lab ID: 20110729-02
 Collection Date: 11/15/2020 3:00:00 PM
 Received Date: 11/16/2020 12:58:00 PM

Sample Information:

Client Sample ID: W Valley View
 Sample Collector: Jennie Morgan
 Matrix: DRINKING WATER
 Source:
 Sample Location: Grab

Top 35 Analysis TM

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	EPA Limit	Date Analyzed	Analyst
Aluminum	E200.7	A	1.15	*	1	0.0200	mg/L	0.200	11/19/20 16:03	KMC
Antimony	E200.8	A	0.00113		1	0.000500	mg/L	0.00600	11/18/20 21:39	SJS
Arsenic	E200.8	A	0.00207		1	0.00100	mg/L	0.0100	11/18/20 21:39	SJS
Barium	E200.8	A	0.0289		1	0.000500	mg/L	2.00	11/18/20 21:39	SJS
Beryllium	E200.7	A	0.000600		1	0.000500	mg/L	0.00400	11/19/20 16:03	KMC
Boron	E200.7	A	0.196		1	0.0500	mg/L		11/19/20 16:03	KMC
Cadmium	E200.8	A	ND		1	0.000100	mg/L	0.00500	11/18/20 21:39	SJS
Calcium	E200.7	A	16.8		1	1.00	mg/L		11/19/20 16:03	KMC
Chloride	E300.0	A	16.6		1	1.00	mg/L	250	11/17/20 10:22	KEC
Chromium	E200.8	A	0.00278		1	0.00100	mg/L	0.100	11/18/20 21:39	SJS
Copper	E200.8	A	0.00795		1	0.000500	mg/L	1.30	11/18/20 21:39	SJS
Fluoride	E300.0	A	ND		1	0.200	mg/L	4.00	11/17/20 10:22	KEC
Hardness, Total (As CaCO3)	A2340B	A	58.3		1	6.62	mg/L	250	11/19/20 16:03	KMC
Iron	E200.7	A	1.20	*	1	0.0150	mg/L	0.300	11/19/20 16:03	KMC
Lead	E200.8	A	0.00339		1	0.000100	mg/L	0.0150	11/18/20 21:39	SJS
Lithium	E200.7	A	ND		1	0.100	mg/L		11/19/20 16:03	KMC
Magnesium	E200.7	A	3.97		1	1.00	mg/L		11/19/20 16:03	KMC
Manganese	E200.7	A	0.0588	*	1	0.0200	mg/L	0.0500	11/19/20 16:03	KMC
Molybdenum	E200.8	A	0.00135		1	0.00100	mg/L		11/18/20 21:39	SJS
Nickel	E200.8	A	0.00196		1	0.000500	mg/L	0.100	11/18/20 21:39	SJS

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Analytical Report

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Lab ID: 20110729-02
Collection Date: 11/15/2020 3:00:00 PM
Received Date: 11/16/2020 12:58:00 PM

Sample Information:

Client Sample ID: W Valley View
Sample Collector: Jennie Morgan
Matrix: DRINKING WATER
Source:
Sample Location: Grab

Top 35 Analysis TM

Analyses	Method	NELAP Status	Result	Qual	DF	RL	Units	EPA Limit	Date Analyzed	Analyst
Nitrogen, Nitrate	E300.0	A	0.367		1	0.200	mg/L	10.0	11/17/20 10:22	KEC
Nitrogen, Nitrite	E300.0	A	ND		1	0.0500	mg/L	1.00	11/17/20 10:22	KEC
pH	A4500-H+B	A	6.89	HR	1	0.10	pH Units	6.50-8.50	11/17/20 17:26	DLM
Potassium	E200.7	A	2.05		1	1.00	mg/L		11/19/20 16:03	KMC
Selenium	E200.8	A	ND		1	0.00100	mg/L	0.0500	11/18/20 21:39	SJS
Silica	E200.7	A	10.9		1	2.14	mg/L		11/19/20 16:03	KMC
Silver	E200.8	A	ND		1	0.000500	mg/L	0.100	11/18/20 21:39	SJS
Sodium	E200.7	A	13.6		1	1.00	mg/L	200	11/19/20 16:03	KMC
Specific Conductance	A2510B	A	147		1	1.00	µmhos/cm		11/17/20 17:26	DLM
Sulfate	E300.0	A	21.6		1	0.500	mg/L	250	11/17/20 10:22	KEC
Thallium	E200.8	A	ND		1	0.000500	mg/L	0.00200	11/18/20 21:39	SJS
Turbidity	A2130	A	9.40	*HR	1	0.100	NTU	1.00-5.00	11/17/20 18:15	DLM
Uranium	E200.8	A	0.000113		1	0.000100	mg/L	0.0300	11/18/20 21:39	SJS
Vanadium	E200.8	A	0.00715		1	0.00500	mg/L		11/18/20 21:39	SJS
Zinc	E200.7	A	ND		1	0.0500	mg/L	5.00	11/19/20 16:03	KMC

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Analytical Report

WO#: 20110729
 Date Reported: 11/30/2020

CLIENT: Rogue Valley Sewer Services	Collection Date: 11/15/2020 3:00:00 PM
Lab ID: 20110729-02B	Received Date: 11/16/2020 12:58:00 PM
Client Sample ID: W Valley View	Matrix: DRINKING WATER
Project: Alameda	PWS #:
Sample Location: Grab	Source ID:
Sample Address:	Sample Collector: JENNIE MORGAN

Analyses	Code	Method	NELAP		Qual		RL Units	Date		Analyst
			Status	Result	DF	MCL		Analyzed		
Organic Carbon, Total	2920	A5310C	A	10.6	1	0.100 mg/L		11/20/20 11:49	SJS	

QUALIFIERS

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

C1 Sample container temperature is out of limit as specified at testcode
 MI Recovery outside control limits due to Matrix Interference
 PL Permit Limit

Original

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QC SUMMARY REPORT

WO#: 20110729
 30-Nov-20

Client: Rogue Valley Sewer Services
Project: Alameda

TestCode: TOC_5310C

Sample ID: LCS @ 1	Sample Type: LCS	TestCode: TOC_5310C	Units: mg/L	Prep Date:	RunNo: 17227						
Client ID: LCSW	Batch ID: R17227	TestNo: A5310C		Analysis Date: 11/20/2020	SeqNo: 248472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	0.969	0.100	1.000	0	96.9	85	115				

Sample ID: MBLK	Sample Type: MBLK	TestCode: TOC_5310C	Units: mg/L	Prep Date:	RunNo: 17227						
Client ID: PBW	Batch ID: R17227	TestNo: A5310C		Analysis Date: 11/20/2020	SeqNo: 248473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	0.100									

Sample ID: MBLK PLASTIC	Sample Type: MBLK	TestCode: TOC_5310C	Units: mg/L	Prep Date:	RunNo: 17227						
Client ID: PBW	Batch ID: R17227	TestNo: A5310C		Analysis Date: 11/20/2020	SeqNo: 248474						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	0.100									

Sample ID: 20110990-01ADUP	Sample Type: DUP	TestCode: TOC_5310C	Units: mg/L	Prep Date:	RunNo: 17227						
Client ID: BatchQC	Batch ID: R17227	TestNo: A5310C		Analysis Date: 11/20/2020	SeqNo: 248496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	1.64	0.100						1.674	2.18	25	

Qualifiers: * Value exceeds Maximum Contaminant Level
 MI Recovery outside control limits due to Matrix Interference
 RL Reporting Detection Limit
 C1 Sample container temperature is out of limit as specified at testcode
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceed
 PL Permit Limit

Original



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QC SUMMARY REPORT

WO#: 20110729
 30-Nov-20

Client: Rogue Valley Sewer Services
Project: Alameda

TestCode: TOC_5310C

Sample ID: 20110990-02AMS	Batch ID: R17227	Sample Type: MS	TestCode: TOC_5310C	Units: mg/L	Prep Date:	RunNo: 17227
Client ID: BatchQC			TestNo: A5310C		Analysis Date: 11/20/2020	SeqNo: 248498

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	3.09	0.100	2.500	0.6335	98.3	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level	C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceed
MI Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL Reporting Detection Limit				

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Sample Log-In Check List

Client Name: **RVSS**

Work Order Number: **20110729**

RcptNo: **1**

Logged by: **Naomi Orr** 11/16/2020 12:58:00 PM

Completed By: **Krizzle Calip** 11/17/2020 3:08:41 PM

Reviewed By: **Tamra Schmedemann** 11/30/2020 2:06:12 PM

Naomi Orr
Krizzle Calip
Tamra Schmedemann

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 HNO3 pH<2
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

Special Handling (if applicable)

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

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

18. Additional remarks:

The samples submitted were tan in color and contained visible sediments. Client asked that we pour off samples for the TOCs as they were not in the correct containers.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good				sns



Chain of Custody Record

This Chain of Custody is a LEGAL DOCUMENT and must be filled out accurately.

Section A
Required Client Information
 Company: Roque Valley Sewer Services
 Address: 138 W Viles Rd
Central Point 97502
 Email: jmoran@rvss.us
 Phone: 503-806-9772 Fax: _____
 Collected By (Print): Jennie Morgan
 Collected By (Sign): Jennie Morgan
 Email Report Mail Report _____ Fax Report _____

Section B
Required Project Information
 Project Name: Alameda
 Project Number: _____
 Report To: Jennie Morgan
 Copy To: _____

Section C
Invoice Information
 Attention: Jennie Morgan
 Company Name: Same
 Address: _____
 P.O. # _____

Section D
Rush Status (Subject to Scheduling)
 Standard: 10 Business Days
 Priority: 5 Business Days (List x 1.50)
 Express: 3 Business Days (List x 1.75)
 Rush: 2 Business Days (List x 2.00)
 Rush: 1 Business Day (List x 2.50)
 Rush: Same Day (List x 3.00)
 Authorized Yes ___ No ___

TOC Samples need to be paired off per client request 11-16-2020

Section E
Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Remarks / Field Data	NRC Sample # Use Only	(Lab
<u>Northridge Terrace</u>	<u>G</u>	<u>W</u>	<u>11-15-20</u>	<u>14:00</u>	<u>1</u>	<u>TOC</u>	<u>01</u>	
<u>W. Valleyview</u>	<u>G</u>	<u>W</u>	<u>11-15-20</u>	<u>15:00</u>	<u>1</u>	<u>TOC</u>	<u>02</u>	

NRC Workorder # (Lab Use Only) 20110729

Section F
Relinquish/Receive
 Relinquished By: Jennie Morgan Sign
 Received By: _____
 Relinquished By: _____
 Received By: _____
 Relinquished By: _____
 Received By: Naomi Orr

Section G
Lab Use Only
 Temp: 5.0°C IR Therm ID: D
 s°C: ___ Yes ___ No ___
 Received on Ice: Yes ___ No ___
 Number of Bottles Received: 2
 pH Checked: _____
 COC Seals Intact: ___ Yes ___ No ___ NA ___
 Field Blank Included: ___ Yes ___ No ___
 Received Via Invoice Cash VISA, M/C Check # _____ Amount _____
 Payment UPS FedEx Other Hand



Neilson Research Corporation

245 S Grape St

Medford, OR 97501

TEL: (541) 770-5678 FAX: (541) 770-2901

Website: www.nrclabs.com

Data Flags

WO#: 20110729

Date: 11/30/2020

-
- B Analyte detected in the associated method blank.
 - BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
 - C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
 - C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
 - CF Results confirmed by re-analysis.
 - CU Cleanup performed as specified by method.
 - D1 The diesel elution pattern for the sample is not typical.
 - D2 The sample appears to be a heavier hydrocarbon range than diesel.
 - D3 The sample appears to be a lighter hydrocarbon range than diesel.
 - D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
 - D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
 - E Estimated value.
 - ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
 - FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
 - G1 The gasoline elution pattern for the sample is not typical.
 - G2 The sample appears to be a heavier hydrocarbon range than gasoline.
 - G3 The sample appears to be a lighter hydrocarbon range than gasoline.
 - G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
 - HP Sample re-analysis performed outside of method specified holding time.
 - HR Sample received outside of method specified holding time.
 - HS Sample analyzed for volatile organics contained headspace.
 - HT At the client's request, the sample was analyzed outside of method specified holding time.
 - H Analysis performed outside of method specified holding time.
 - J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
 - L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
 - MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
 - N See Case Narrative on page 2 of report.
 - NLR No Legionella Recovered.
 - PLR Presence of Legionella Recovered.
 - Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
 - R Relative percent difference (RPD) is outside of the accepted recovery limits.
 - R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
 - R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
 - R4 Duplicate analysis failed due to result being at or near the method reporting limit.
 - S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
 - S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
 - SC Sub-contracted to another laboratory for analysis.
 - SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
 - # Value exceeds regulatory level for TCLP contaminant.
 - X1 The motor oil elution pattern for the sample is not typical.
 - X2 The sample appears to be a heavier hydrocarbon range than motor oil.
 - X3 The sample appears to be a lighter hydrocarbon range than motor oil.
 - * Value exceeds Maximum Contaminant Level or is outside the acceptable range.

Original



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Thursday, May 6, 2021
Jennie Morgan
Rogue Valley Sewer Services
138 W Vilas Rd
Central Point, OR 97502

RE: A1A0055 - Alameda Post Fire Monitoring - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1A0055, which was received by the laboratory on 1/5/2021 at 8:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: apatton@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 1.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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[Handwritten signature of Amy Patton]

Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W Valley View	A1A0055-01	Water	12/30/20 17:30	01/05/21 08:30
North Ridge Terrace	A1A0055-02	Water	12/30/20 18:15	01/05/21 08:30
Trip Blank	A1A0055-03	Water	12/30/20 00:00	01/05/21 08:30

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Amy Patton For Kurt Johnson, Senior Chemist



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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL CASE NARRATIVE

Work Order: A1A0055

Amended Report Revision #1:

This report supersedes all previous reports.

Additional Analyses

Analysis of Iron on samples W. Valley View and North Ridge Terrace were added after the previous report version had been completed.

In addition, the following clarification is provided regarding the Tentatively Identified Compound (TIC) Reports.

Tentatively Identified Compounds

In addition to the standard analyte list of over 70 SVOCs eluting from 126 degrees C to 545 degrees C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. According to EPA protocol, only compounds from the library search with qualifiers above 85 are considered probable matches. The tentatively identified compound (TIC) report provides estimated concentrations not based on instrument calibration of the specific compound. Estimated concentrations require correction for dilution factors, prep factors and moisture content when applicable.

.alpha-Methylstyrene and Butyl citrate were detected at similar concentrations in both the method blank and the project samples and therefore detections in the project samples are likely due to blank contamination. The TIC data for the project samples and method blank are included in the TIC report. This report is not complete without an attached Tentatively Identified Compound (TIC) report.

Amy Patton
Forensic Project Manager
5/5/2021

Apex Laboratories

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503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: **Jennie Morgan**

Report ID:

A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		Batch: 1012539		PRES
Diesel	884	97.1	194	ug/L	1	01/07/21 02:08	NWTPH-Dx	F-11, F-15
Oil	1000	194	388	ug/L	1	01/07/21 02:08	NWTPH-Dx	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/07/21 02:08</i>	<i>NWTPH-Dx</i>
North Ridge Terrace (A1A0055-02)				Matrix: Water		Batch: 1012539		PRES
Diesel	ND	99.0	198	ug/L	1	01/07/21 02:30	NWTPH-Dx	
Oil	536	198	396	ug/L	1	01/07/21 02:30	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/07/21 02:30</i>	<i>NWTPH-Dx</i>

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Amy Patton For Kurt Johnson, Senior Chemist



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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)			Matrix: Water		Batch: 1012767			
Diesel	783	97.1	194	ug/L	1	01/12/21 01:24	NWTPH-Dx/SG	F-11, F-15
Oil	892	194	388	ug/L	1	01/12/21 01:24	NWTPH-Dx/SG	F-16
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/12/21 01:24</i>	<i>NWTPH-Dx/SG</i>
North Ridge Terrace (A1A0055-02)			Matrix: Water		Batch: 1012767			
Diesel	ND	99.0	198	ug/L	1	01/12/21 01:46	NWTPH-Dx/SG	
Oil	405	198	396	ug/L	1	01/12/21 01:46	NWTPH-Dx/SG	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>01/12/21 01:46</i>	<i>NWTPH-Dx/SG</i>

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 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		Batch: 1012451		V-01
Gasoline Range Organics	ND	50.0	100	ug/L	1	01/06/21 18:08	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>01/06/21 18:08</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>01/06/21 18:08</i>	<i>NWTPH-Gx (MS)</i>	
North Ridge Terrace (A1A0055-02)				Matrix: Water		Batch: 1012451		V-01
Gasoline Range Organics	ND	50.0	100	ug/L	1	01/06/21 18:35	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>01/06/21 18:35</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>50-150 %</i>	<i>1</i>	<i>01/06/21 18:35</i>	<i>NWTPH-Gx (MS)</i>	

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		Batch: 1012451		V-01
Acetone	ND	10.0	20.0	ug/L	1	01/06/21 18:08	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/06/21 18:08	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Bromoform	ND	1.00	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/06/21 18:08	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/06/21 18:08	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Carbon disulfide	ND	10.0	10.0	ug/L	1	01/06/21 18:08	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/06/21 18:08	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1-Dichloroethene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/06/21 18:08	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)			Matrix: Water		Batch: 1012451		V-01	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/06/21 18:08	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/06/21 18:08	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/06/21 18:08	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	01/06/21 18:08	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	01/06/21 18:08	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/06/21 18:08	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>

North Ridge Terrace (A1A0055-02)			Matrix: Water		Batch: 1012451		V-01	
Acetone	ND	10.0	20.0	ug/L	1	01/06/21 18:35	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/06/21 18:35	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Bromoform	ND	1.00	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/06/21 18:35	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/06/21 18:35	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (A1A0055-02)			Matrix: Water			Batch: 1012451		V-01
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Carbon disulfide	ND	10.0	10.0	ug/L	1	01/06/21 18:35	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/06/21 18:35	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1-Dichloroethene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/06/21 18:35	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/06/21 18:35	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/06/21 18:35	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/06/21 18:35	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	01/06/21 18:35	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (A1A0055-02)			Matrix: Water		Batch: 1012451		V-01	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	01/06/21 18:35	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/06/21 18:35	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8260D)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		Batch: 1012451		V-01
See TIC Report	0.0			ug/L	1	01/06/21 18:08	8260D TICs	
North Ridge Terrace (A1A0055-02)				Matrix: Water		Batch: 1012451		V-01
See TIC Report	0.0			ug/L	1	01/06/21 18:35	8260D TICs	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Oxygenates by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)			Matrix: Water		Batch: 1012451		V-01	
Ethanol	ND	62.5	125	ug/L	1	01/06/21 18:08	EPA 8260D	
tert-Butanol (TBA)	ND	100	100	ug/L	1	01/06/21 18:08	EPA 8260D	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
tert-Amyl methyl ether (TAME)	ND	0.250	0.500	ug/L	1	01/06/21 18:08	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:08</i>	<i>EPA 8260D</i>
North Ridge Terrace (A1A0055-02)			Matrix: Water		Batch: 1012451		V-01	
Ethanol	ND	62.5	125	ug/L	1	01/06/21 18:35	EPA 8260D	
tert-Butanol (TBA)	ND	100	100	ug/L	1	01/06/21 18:35	EPA 8260D	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
tert-Amyl methyl ether (TAME)	ND	0.250	0.500	ug/L	1	01/06/21 18:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/06/21 18:35</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with project details: Rogue Valley Sewer Services, Project: Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan, Report ID: A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Main data table with columns: Analyte, Sample Result, Detection Limit, Reporting Limit, Units, Dilution, Date Analyzed, Method Ref., Notes. Includes sub-headers for Matrix: Water and Batch: 1012508.

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client info (Rogue Valley Sewer Services), Project info (Alameda Post Fire Monitoring), and Report ID (A1A0055 - 05 06 21 1636).

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Main analytical results table with columns: Analyte, Sample Result, Detection Limit, Reporting Limit, Units, Dilution, Date Analyzed, Method Ref., and Notes. Includes a list of compounds like Dimethylphthalate and Benzoic acid.

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with project details: Rogue Valley Sewer Services, Project: Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan, Report ID: A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Table for W Valley View (A1A0055-01RE1) showing analyte results for 2-Fluorophenol and 2,4,6-Tribromophenol with recovery and limits data.

Main table for North Ridge Terrace (A1A0055-02RE1) listing various polycyclic aromatic hydrocarbons and phenols with their respective concentrations and detection limits.

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with project details: Rogue Valley Sewer Services, Project: Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan, Report ID: A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Main data table with columns: Analyte, Sample Result, Detection Limit, Reporting Limit, Units, Dilution, Date Analyzed, Method Ref., Notes. Includes sub-headers for North Ridge Terrace (A1A0055-02RE1), Matrix: Water, and Batch: 1012508.

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: Jennie Morgan

Report ID:

A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (A1A0055-02RE1)				Matrix: Water		Batch: 1012508		
Surrogate: Nitrobenzene-d5 (Surr)		Recovery: 47 %	Limits: 44-120 %		4	01/07/21 12:06	EPA 8270E	
2-Fluorobiphenyl (Surr)		46 %	44-120 %		4	01/07/21 12:06	EPA 8270E	
Phenol-d6 (Surr)		18 %	10-133 %		4	01/07/21 12:06	EPA 8270E	
p-Terphenyl-d14 (Surr)		83 %	50-134 %		4	01/07/21 12:06	EPA 8270E	
2-Fluorophenol (Surr)		25 %	19-120 %		4	01/07/21 12:06	EPA 8270E	
2,4,6-Tribromophenol (Surr)		94 %	43-140 %		4	01/07/21 12:06	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: **Jennie Morgan**

Report ID:

A1A0055 - 05 06 21 1636

ANALYTICAL SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8270E)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01RE1)				Matrix: Water		Batch: 1012508		
See TIC Report	0.0			ug/L	1	01/07/21 14:56	EPA 8270E TICs	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01) Matrix: Water								
Batch: 1012691								
Aluminum	8.22	0.0250	0.0500	mg/L	1	01/08/21 22:30	EPA 200.8	
Antimony	0.00253	0.000500	0.00100	mg/L	1	01/08/21 22:30	EPA 200.8	
Arsenic	0.00437	0.000500	0.00100	mg/L	1	01/08/21 22:30	EPA 200.8	
Beryllium	0.000218	0.000100	0.000200	mg/L	1	01/08/21 22:30	EPA 200.8	
Cadmium	0.000272	0.000100	0.000200	mg/L	1	01/08/21 22:30	EPA 200.8	
Calcium	38.1	0.300	0.600	mg/L	1	01/08/21 22:30	EPA 200.8	B-02
Chromium	0.0159	0.000500	0.00100	mg/L	1	01/08/21 22:30	EPA 200.8	
Copper	0.0624	0.00100	0.00200	mg/L	1	01/08/21 22:30	EPA 200.8	
Iron	11.4	0.0250	0.0500	mg/L	1	01/08/21 22:30	EPA 200.8	
Lead	0.0296	0.000100	0.000200	mg/L	1	01/08/21 22:30	EPA 200.8	
Mercury	ND	0.0000400	0.0000800	mg/L	1	01/08/21 22:30	EPA 200.8	
Nickel	0.0147	0.00100	0.00200	mg/L	1	01/08/21 22:30	EPA 200.8	
Selenium	ND	0.000500	0.00100	mg/L	1	01/08/21 22:30	EPA 200.8	
Silver	0.000103	0.000100	0.000200	mg/L	1	01/08/21 22:30	EPA 200.8	J
Thallium	ND	0.000100	0.000200	mg/L	1	01/08/21 22:30	EPA 200.8	
Zinc	0.238	0.00200	0.00400	mg/L	1	01/08/21 22:30	EPA 200.8	

W Valley View (A1A0055-01RE1) Matrix: Water								
Batch: 1012691								
Magnesium	14.4	0.250	0.500	mg/L	5	01/11/21 21:30	EPA 200.8	B-02

North Ridge Terrace (A1A0055-02) Matrix: Water								
Batch: 1012691								
Aluminum	0.884	0.0250	0.0500	mg/L	1	01/08/21 22:34	EPA 200.8	
Antimony	ND	0.000500	0.00100	mg/L	1	01/08/21 22:34	EPA 200.8	
Arsenic	0.00158	0.000500	0.00100	mg/L	1	01/08/21 22:34	EPA 200.8	
Beryllium	ND	0.000100	0.000200	mg/L	1	01/08/21 22:34	EPA 200.8	
Cadmium	ND	0.000100	0.000200	mg/L	1	01/08/21 22:34	EPA 200.8	
Calcium	4.35	0.300	0.600	mg/L	1	01/08/21 22:34	EPA 200.8	B-02
Chromium	0.00184	0.000500	0.00100	mg/L	1	01/08/21 22:34	EPA 200.8	
Copper	0.0107	0.00100	0.00200	mg/L	1	01/08/21 22:34	EPA 200.8	
Iron	1.07	0.0250	0.0500	mg/L	1	01/08/21 22:34	EPA 200.8	
Lead	0.00216	0.000100	0.000200	mg/L	1	01/08/21 22:34	EPA 200.8	
Magnesium	0.677	0.0500	0.100	mg/L	1	01/08/21 22:34	EPA 200.8	B-02
Mercury	ND	0.0000400	0.0000800	mg/L	1	01/08/21 22:34	EPA 200.8	
Nickel	0.00201	0.00100	0.00200	mg/L	1	01/08/21 22:34	EPA 200.8	
Selenium	ND	0.000500	0.00100	mg/L	1	01/08/21 22:34	EPA 200.8	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
North Ridge Terrace (A1A0055-02)				Matrix: Water				
Silver	ND	0.000100	0.000200	mg/L	1	01/08/21 22:34	EPA 200.8	
Thallium	ND	0.000100	0.000200	mg/L	1	01/08/21 22:34	EPA 200.8	
Zinc	0.0416	0.00200	0.00400	mg/L	1	01/08/21 22:34	EPA 200.8	

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		(Calculated)		
Hardness	155	---	3.56	mg CaCO3/L	5	01/11/21 21:30	SM 2340B	
North Ridge Terrace (A1A0055-02)				Matrix: Water		(Calculated)		
Hardness	13.7	---	1.91	mg CaCO3/L	1	01/08/21 22:34	SM 2340B	

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water		Batch: 1012732		
Total Organic Carbon	5.96	1.00	1.00	mg/L	1	01/12/21 15:32	SM 5310 C	PRES
North Ridge Terrace (A1A0055-02)				Matrix: Water		Batch: 1012732		
Total Organic Carbon	4.98	1.00	1.00	mg/L	1	01/12/21 16:04	SM 5310 C	PRES

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W Valley View (A1A0055-01)				Matrix: Water				
Batch: 1012609								
pH	7.75			pH Units	1	01/07/21 08:53	SM 4500-H+ B	H-12
pH Temperature (deg C)	18.5			pH Units	1	01/07/21 08:53	SM 4500-H+ B	H-12
North Ridge Terrace (A1A0055-02)				Matrix: Water				
Batch: 1012609								
pH	6.82			pH Units	1	01/07/21 08:59	SM 4500-H+ B	H-12
pH Temperature (deg C)	18.3			pH Units	1	01/07/21 08:59	SM 4500-H+ B	H-12

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 1012539 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (1012539-BLK1)		Prepared: 01/06/21 07:37 Analyzed: 01/06/21 22:43										
<u>NWTPH-Dx</u>												
Diesel	ND	90.9	182	ug/L	1	---	---	---	---	---	---	---
Oil	ND	182	364	ug/L	1	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 94 % Limits: 50-150 % Dilution: 1x</i>										
LCS (1012539-BS1)		Prepared: 01/06/21 07:37 Analyzed: 01/06/21 23:06										
<u>NWTPH-Dx</u>												
Diesel	1030	100	200	ug/L	1	1250	---	82	59 - 115%	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 92 % Limits: 50-150 % Dilution: 1x</i>										
LCS Dup (1012539-BSD1)		Prepared: 01/06/21 07:37 Analyzed: 01/06/21 23:29										
<u>NWTPH-Dx</u>												
Diesel	1060	100	200	ug/L	1	1250	---	85	59 - 115%	3	30%	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 90 % Limits: 50-150 % Dilution: 1x</i>										

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012767 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (1012767-BLK1)		Prepared: 01/06/21 07:37 Analyzed: 01/12/21 00:19										
<u>NWTPH-Dx/SG</u>												
Diesel	ND	90.9	182	ug/L	1	---	---	---	---	---	---	
Oil	ND	182	364	ug/L	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 105 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (1012767-BS1)		Prepared: 01/06/21 07:37 Analyzed: 01/12/21 00:41										
<u>NWTPH-Dx/SG</u>												
Diesel	1240	100	200	ug/L	1	1250	---	99	59 - 115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 107 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS Dup (1012767-BSD1)		Prepared: 01/06/21 07:37 Analyzed: 01/12/21 01:02 Q-19										
<u>NWTPH-Dx/SG</u>												
Diesel	1260	100	200	ug/L	1	1250	---	100	59 - 115%	1	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 104 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Table with project details: Rogue Valley Sewer Services, Project: Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan, Report ID: A1A0055 - 05 06 21 1636

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Main data table with columns: Analyte, Result, Detection Limit, Reporting Limit, Units, Dilution, Spike Amount, Source Result, % REC, % REC Limits, RPD, RPD Limit, Notes. Includes sections for Batch 1012451 - EPA 5030B Water and LCS (1012451-BS2).

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
Blank (1012451-BLK1)		Prepared: 01/06/21 08:00		Analyzed: 01/06/21 10:53								
<u>EPA 8260D</u>												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	1.00	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
Blank (1012451-BLK1)		Prepared: 01/06/21 08:00		Analyzed: 01/06/21 10:53								
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client/Address (Rogue Valley Sewer Services, 138 W Vilas Rd, Central Point, OR 97502), Project (Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan), and Report ID (A1A0055 - 05 06 21 1636)

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Table with 12 columns: Analyte, Result, Detection Limit, Reporting Limit, Units, Dilution, Spike Amount, Source Result, % REC, % REC Limits, RPD, RPD Limit, Notes. Includes Batch 1012451 - EPA 5030B Water and Blank (1012451-BLK1) results.

Table with 12 columns: Analyte, Result, Detection Limit, Reporting Limit, Units, Dilution, Spike Amount, Source Result, % REC, % REC Limits, RPD, RPD Limit, Notes. Includes LCS (1012451-BS1) EPA 8260D results for various compounds like Acetone, Benzene, etc.

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
LCS (1012451-BS1)	Prepared: 01/06/21 08:00					Analyzed: 01/06/21 09:58						
1,2-Dichloroethane (EDC)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,1-Dichloroethene	21.9	0.500	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
cis-1,2-Dichloroethene	19.0	0.200	0.400	ug/L	1	20.0	---	95	80 - 120%	---	---	
trans-1,2-Dichloroethene	19.7	0.200	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,2-Dichloropropane	19.3	0.250	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,3-Dichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
2,2-Dichloropropane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,1-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
cis-1,3-Dichloropropene	18.3	0.500	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
trans-1,3-Dichloropropene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Ethylbenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
Hexachlorobutadiene	21.4	2.50	5.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
2-Hexanone	41.9	5.00	10.0	ug/L	1	40.0	---	105	80 - 120%	---	---	
Isopropylbenzene	18.2	0.500	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
4-Isopropyltoluene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Methylene chloride	22.5	5.00	10.0	ug/L	1	20.0	---	113	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	40.5	5.00	10.0	ug/L	1	40.0	---	101	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	17.7	0.500	1.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
Naphthalene	20.3	1.00	2.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
n-Propylbenzene	22.2	0.250	0.500	ug/L	1	20.0	---	111	80 - 120%	---	---	
Styrene	18.1	0.500	1.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	17.7	0.200	0.400	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,1,1,2,2-Tetrachloroethane	17.7	0.250	0.500	ug/L	1	20.0	---	88	80 - 120%	---	---	
Tetrachloroethene (PCE)	21.7	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Toluene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,2,3-Trichlorobenzene	21.2	1.00	2.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,2,4-Trichlorobenzene	21.9	1.00	2.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,1,1-Trichloroethane	17.5	0.200	0.400	ug/L	1	20.0	---	88	80 - 120%	---	---	
1,1,2-Trichloroethane	17.5	0.250	0.500	ug/L	1	20.0	---	88	80 - 120%	---	---	
Trichloroethene (TCE)	19.1	0.200	0.400	ug/L	1	20.0	---	96	80 - 120%	---	---	
Trichlorofluoromethane	23.6	1.00	2.00	ug/L	1	20.0	---	118	80 - 120%	---	---	
1,2,3-Trichloropropane	18.0	0.500	1.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
1,2,4-Trimethylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
1,3,5-Trimethylbenzene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
LCS (1012451-BS1)		Prepared: 01/06/21 08:00		Analyzed: 01/06/21 09:58								
Vinyl chloride	19.1	0.200	0.400	ug/L	1	20.0	---	96	80 - 120%	---	---	
m,p-Xylene	43.3	0.500	1.00	ug/L	1	40.0	---	108	80 - 120%	---	---	
o-Xylene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8260D)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
Blank (1012451-BLK1)		Prepared: 01/06/21 08:00 Analyzed: 01/06/21 10:53										
8260D TICs												
See TIC Report	0.0			ug/L	1	---	---	---	---	---	---	

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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QUALITY CONTROL (QC) SAMPLE RESULTS

Oxygenates by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012451 - EPA 5030B						Water						
Blank (1012451-BLK1)		Prepared: 01/06/21 08:00		Analyzed: 01/06/21 10:53								
EPA 8260D												
Ethanol	ND	62.5	125	ug/L	1	---	---	---	---	---	---	
tert-Butanol (TBA)	ND	100	100	ug/L	1	---	---	---	---	---	---	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
tert-Amyl methyl ether (TAME)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (1012451-BS1)						Prepared: 01/06/21 08:00 Analyzed: 01/06/21 09:58						
EPA 8260D												
Ethanol	1250	62.5	125	ug/L	1	1250	---	100	80 - 120%	---	---	
tert-Butanol (TBA)	935	100	100	ug/L	1	1250	---	75	80 - 120%	---	---	Q-55
Diisopropyl ether (DIPE)	4.73	0.250	0.500	ug/L	1	5.00	---	95	80 - 120%	---	---	
Ethyl-tert-butyl ether (ETBE)	4.20	0.250	0.500	ug/L	1	5.00	---	84	80 - 120%	---	---	
tert-Amyl methyl ether (TAME)	4.29	0.250	0.500	ug/L	1	5.00	---	86	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1012508-BLK1)		Prepared: 01/05/21 10:52		Analyzed: 01/06/21 19:43								
EPA 8270E												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	0.182	0.182	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	0.118	0.0909	0.182	ug/L	1	---	---	---	---	---	---	B-02, J
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	0.0530	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	B-02, J

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1012508-BLK1)												
						Prepared: 01/05/21 10:52	Analyzed: 01/06/21 19:43					
2,3,5,6-Tetrachlorophenol	0.0472	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	B-02, J
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.14	2.27	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	0.108	0.0909	0.182	ug/L	1	---	---	---	---	---	---	B-02, J
Isophorone	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services	Project: Alameda Post Fire Monitoring	
138 W Vilas Rd	Project Number: [none]	Report ID:
Central Point, OR 97502	Project Manager: Jennie Morgan	A1A0055 - 05 06 21 1636

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1012508-BLK1)	Prepared: 01/05/21 10:52 Analyzed: 01/06/21 19:43											
Azobenzene (1,2-DPH)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		Recovery: 72 %		Limits: 44-120 %		Dilution: 1x						
<i>2-Fluorobiphenyl (Surr)</i>		59 %		44-120 %		"						
<i>Phenol-d6 (Surr)</i>		27 %		10-133 %		"						
<i>p-Terphenyl-d14 (Surr)</i>		85 %		50-134 %		"						
<i>2-Fluorophenol (Surr)</i>		42 %		19-120 %		"						
<i>2,4,6-Tribromophenol (Surr)</i>		80 %		43-140 %		"						

LCS (1012508-BS1)		Prepared: 01/05/21 10:52 Analyzed: 01/06/21 20:20											
EPA 8270E													
Acenaphthene	2.95	0.0200	0.0400	ug/L	2	4.00	---	74	47 - 122%	---	---		
Acenaphthylene	3.23	0.0200	0.0400	ug/L	2	4.00	---	81	41 - 130%	---	---		
Anthracene	3.34	0.0200	0.0400	ug/L	2	4.00	---	83	57 - 123%	---	---		
Benz(a)anthracene	3.46	0.0200	0.0400	ug/L	2	4.00	---	86	58 - 125%	---	---		
Benzo(a)pyrene	3.50	0.0300	0.0600	ug/L	2	4.00	---	88	54 - 128%	---	---		
Benzo(b)fluoranthene	3.56	0.0300	0.0600	ug/L	2	4.00	---	89	53 - 131%	---	---		
Benzo(k)fluoranthene	3.31	0.0300	0.0600	ug/L	2	4.00	---	83	57 - 129%	---	---		
Benzo(g,h,i)perylene	3.80	0.0200	0.0400	ug/L	2	4.00	---	95	50 - 134%	---	---		
Chrysene	3.31	0.0200	0.0400	ug/L	2	4.00	---	83	59 - 123%	---	---		
Dibenz(a,h)anthracene	3.26	0.0200	0.0400	ug/L	2	4.00	---	81	51 - 134%	---	---		
Fluoranthene	3.53	0.0200	0.0400	ug/L	2	4.00	---	88	57 - 128%	---	---		
Fluorene	3.18	0.0200	0.0400	ug/L	2	4.00	---	79	52 - 124%	---	---		
Indeno(1,2,3-cd)pyrene	3.36	0.0200	0.0400	ug/L	2	4.00	---	84	52 - 134%	---	---		
1-Methylnaphthalene	2.47	0.0400	0.0800	ug/L	2	4.00	---	62	41 - 120%	---	---		
2-Methylnaphthalene	2.46	0.0400	0.0800	ug/L	2	4.00	---	62	40 - 121%	---	---		

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ANALYTICAL REPORT

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Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (1012508-BS1)	Prepared: 01/05/21 10:52					Analyzed: 01/06/21 20:20						
Naphthalene	2.30	0.0400	0.0800	ug/L	2	4.00	---	58	40 - 121%	---	---	
Phenanthrene	3.19	0.0200	0.0400	ug/L	2	4.00	---	80	59 - 120%	---	---	
Pyrene	3.47	0.0200	0.0400	ug/L	2	4.00	---	87	57 - 126%	---	---	
Carbazole	3.64	0.0300	0.0600	ug/L	2	4.00	---	91	60 - 122%	---	---	
Dibenzofuran	3.05	0.0200	0.0400	ug/L	2	4.00	---	76	53 - 120%	---	---	
2-Chlorophenol	2.79	0.100	0.200	ug/L	2	4.00	---	70	38 - 120%	---	---	
4-Chloro-3-methylphenol	3.21	0.200	0.400	ug/L	2	4.00	---	80	52 - 120%	---	---	
2,4-Dichlorophenol	3.42	0.100	0.200	ug/L	2	4.00	---	86	47 - 121%	---	---	
2,4-Dimethylphenol	3.10	0.100	0.200	ug/L	2	4.00	---	78	31 - 124%	---	---	
2,4-Dinitrophenol	3.15	0.500	1.00	ug/L	2	4.00	---	79	23 - 143%	---	---	Q-31
4,6-Dinitro-2-methylphenol	3.08	0.500	1.00	ug/L	2	4.00	---	77	44 - 137%	---	---	
2-Methylphenol	2.73	0.0500	0.100	ug/L	2	4.00	---	68	30 - 120%	---	---	
3+4-Methylphenol(s)	2.52	0.0500	0.100	ug/L	2	4.00	---	63	29 - 120%	---	---	
2-Nitrophenol	3.17	0.200	0.400	ug/L	2	4.00	---	79	47 - 123%	---	---	
4-Nitrophenol	1.39	0.400	0.400	ug/L	2	4.00	---	35	10 - 120%	---	---	
Pentachlorophenol (PCP)	3.68	0.200	0.400	ug/L	2	4.00	---	92	35 - 138%	---	---	B-02
Phenol	1.25	0.400	0.800	ug/L	2	4.00	---	31	10 - 120%	---	---	
2,3,4,6-Tetrachlorophenol	3.52	0.100	0.200	ug/L	2	4.00	---	88	50 - 128%	---	---	B-02
2,3,5,6-Tetrachlorophenol	3.80	0.100	0.200	ug/L	2	4.00	---	95	50 - 121%	---	---	B-02
2,4,5-Trichlorophenol	3.52	0.100	0.200	ug/L	2	4.00	---	88	53 - 123%	---	---	
Nitrobenzene	3.09	0.200	0.400	ug/L	2	4.00	---	77	45 - 121%	---	---	
2,4,6-Trichlorophenol	3.63	0.100	0.200	ug/L	2	4.00	---	91	50 - 125%	---	---	
Bis(2-ethylhexyl)phthalate	3.64	0.400	0.800	ug/L	2	4.00	---	91	55 - 135%	---	---	
Butyl benzyl phthalate	3.94	0.400	0.800	ug/L	2	4.00	---	99	53 - 134%	---	---	
Diethylphthalate	3.50	0.400	0.800	ug/L	2	4.00	---	88	56 - 125%	---	---	
Dimethylphthalate	3.59	0.400	0.800	ug/L	2	4.00	---	90	45 - 127%	---	---	
Di-n-butylphthalate	3.74	0.400	0.800	ug/L	2	4.00	---	93	59 - 127%	---	---	
Di-n-octyl phthalate	3.88	0.400	0.800	ug/L	2	4.00	---	97	51 - 140%	---	---	
N-Nitrosodimethylamine	1.84	0.0500	0.100	ug/L	2	4.00	---	46	10 - 120%	---	---	
N-Nitroso-di-n-propylamine	3.33	0.0500	0.100	ug/L	2	4.00	---	83	49 - 120%	---	---	
N-Nitrosodiphenylamine	3.45	0.0500	0.100	ug/L	2	4.00	---	86	51 - 123%	---	---	
Bis(2-Chloroethoxy) methane	3.09	0.0500	0.100	ug/L	2	4.00	---	77	48 - 120%	---	---	
Bis(2-Chloroethyl) ether	2.86	0.0500	0.100	ug/L	2	4.00	---	71	43 - 120%	---	---	
2,2'-Oxybis(1-Chloropropane)	2.80	0.0500	0.100	ug/L	2	4.00	---	70	37 - 130%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (1012508-BS1)	Prepared: 01/05/21 10:52		Analyzed: 01/06/21 20:20									
Hexachlorobenzene	3.28	0.0200	0.0400	ug/L	2	4.00	---	82	53 - 125%	---	---	
Hexachlorobutadiene	1.64	0.0500	0.100	ug/L	2	4.00	---	41	22 - 124%	---	---	
Hexachlorocyclopentadiene	1.77	0.100	0.200	ug/L	2	4.00	---	44	10 - 127%	---	---	
Hexachloroethane	1.59	0.0500	0.100	ug/L	2	4.00	---	40	21 - 120%	---	---	
2-Chloronaphthalene	2.58	0.0200	0.0400	ug/L	2	4.00	---	64	40 - 120%	---	---	
1,2,4-Trichlorobenzene	1.92	0.0500	0.100	ug/L	2	4.00	---	48	29 - 120%	---	---	
4-Bromophenyl phenyl ether	3.32	0.0500	0.100	ug/L	2	4.00	---	83	55 - 124%	---	---	
4-Chlorophenyl phenyl ether	3.07	0.0500	0.100	ug/L	2	4.00	---	77	53 - 121%	---	---	
Aniline	2.42	0.100	0.200	ug/L	2	4.00	---	61	10 - 120%	---	---	
4-Chloroaniline	3.15	0.0500	0.100	ug/L	2	4.00	---	79	33 - 120%	---	---	
2-Nitroaniline	3.48	0.400	0.800	ug/L	2	4.00	---	87	55 - 127%	---	---	
3-Nitroaniline	3.11	0.400	0.800	ug/L	2	4.00	---	78	41 - 128%	---	---	
4-Nitroaniline	2.83	0.400	0.800	ug/L	2	4.00	---	71	54 - 128%	---	---	
2,4-Dinitrotoluene	3.40	0.200	0.400	ug/L	2	4.00	---	85	57 - 128%	---	---	
2,6-Dinitrotoluene	3.27	0.200	0.400	ug/L	2	4.00	---	82	57 - 124%	---	---	
Benzoic acid	3.71	2.50	2.50	ug/L	2	8.00	---	46	10 - 120%	---	---	
Benzyl alcohol	3.04	0.200	0.400	ug/L	2	4.00	---	76	31 - 120%	---	---	B-02
Isophorone	3.50	0.0500	0.100	ug/L	2	4.00	---	87	42 - 124%	---	---	
Azobenzene (1,2-DPH)	3.14	0.0500	0.100	ug/L	2	4.00	---	78	61 - 120%	---	---	
Bis(2-Ethylhexyl) adipate	3.69	0.500	1.00	ug/L	2	4.00	---	92	57 - 136%	---	---	
3,3'-Dichlorobenzidine	8.50	1.00	2.00	ug/L	2	8.00	---	106	27 - 129%	---	---	
1,2-Dinitrobenzene	3.29	0.500	1.00	ug/L	2	4.00	---	82	59 - 120%	---	---	
1,3-Dinitrobenzene	3.35	0.500	1.00	ug/L	2	4.00	---	84	49 - 128%	---	---	
1,4-Dinitrobenzene	3.25	0.500	1.00	ug/L	2	4.00	---	81	72 - 130%	---	---	
Pyridine	1.50	0.200	0.400	ug/L	2	4.00	---	37	10 - 120%	---	---	
1,2-Dichlorobenzene	1.76	0.0500	0.100	ug/L	2	4.00	---	44	32 - 120%	---	---	
1,3-Dichlorobenzene	1.65	0.0500	0.100	ug/L	2	4.00	---	41	28 - 120%	---	---	
1,4-Dichlorobenzene	1.67	0.0500	0.100	ug/L	2	4.00	---	42	29 - 120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	Recovery: 75 %	Limits: 44-120 %	Dilution: 2x
2-Fluorobiphenyl (Surr)	67 %	44-120 %	"
Phenol-d6 (Surr)	25 %	10-133 %	"
p-Terphenyl-d14 (Surr)	83 %	50-134 %	"
2-Fluorophenol (Surr)	39 %	19-120 %	"
2,4,6-Tribromophenol (Surr)	90 %	43-140 %	"

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (1012508-BSD1)						Prepared: 01/05/21 10:52 Analyzed: 01/06/21 20:57						Q-19
EPA 8270E												
Acenaphthene	2.84	0.0200	0.0400	ug/L	2	4.00	---	71	47 - 122%	4	30%	
Acenaphthylene	3.11	0.0200	0.0400	ug/L	2	4.00	---	78	41 - 130%	4	30%	
Anthracene	3.44	0.0200	0.0400	ug/L	2	4.00	---	86	57 - 123%	3	30%	
Benz(a)anthracene	3.62	0.0200	0.0400	ug/L	2	4.00	---	91	58 - 125%	5	30%	
Benzo(a)pyrene	3.70	0.0300	0.0600	ug/L	2	4.00	---	92	54 - 128%	6	30%	
Benzo(b)fluoranthene	3.73	0.0300	0.0600	ug/L	2	4.00	---	93	53 - 131%	5	30%	
Benzo(k)fluoranthene	3.48	0.0300	0.0600	ug/L	2	4.00	---	87	57 - 129%	5	30%	
Benzo(g,h,i)perylene	4.07	0.0200	0.0400	ug/L	2	4.00	---	102	50 - 134%	7	30%	
Chrysene	3.50	0.0200	0.0400	ug/L	2	4.00	---	88	59 - 123%	6	30%	
Dibenz(a,h)anthracene	3.47	0.0200	0.0400	ug/L	2	4.00	---	87	51 - 134%	6	30%	
Fluoranthene	3.70	0.0200	0.0400	ug/L	2	4.00	---	92	57 - 128%	5	30%	
Fluorene	3.09	0.0200	0.0400	ug/L	2	4.00	---	77	52 - 124%	3	30%	
Indeno(1,2,3-cd)pyrene	3.58	0.0200	0.0400	ug/L	2	4.00	---	89	52 - 134%	6	30%	
1-Methylnaphthalene	2.41	0.0400	0.0800	ug/L	2	4.00	---	60	41 - 120%	3	30%	
2-Methylnaphthalene	2.43	0.0400	0.0800	ug/L	2	4.00	---	61	40 - 121%	1	30%	
Naphthalene	2.23	0.0400	0.0800	ug/L	2	4.00	---	56	40 - 121%	3	30%	
Phenanthrene	3.29	0.0200	0.0400	ug/L	2	4.00	---	82	59 - 120%	3	30%	
Pyrene	3.59	0.0200	0.0400	ug/L	2	4.00	---	90	57 - 126%	3	30%	
Carbazole	3.84	0.0300	0.0600	ug/L	2	4.00	---	96	60 - 122%	5	30%	
Dibenzofuran	2.92	0.0200	0.0400	ug/L	2	4.00	---	73	53 - 120%	4	30%	
2-Chlorophenol	2.57	0.100	0.200	ug/L	2	4.00	---	64	38 - 120%	9	30%	
4-Chloro-3-methylphenol	3.13	0.200	0.400	ug/L	2	4.00	---	78	52 - 120%	2	30%	
2,4-Dichlorophenol	3.12	0.100	0.200	ug/L	2	4.00	---	78	47 - 121%	9	30%	
2,4-Dimethylphenol	2.99	0.100	0.200	ug/L	2	4.00	---	75	31 - 124%	4	30%	
2,4-Dinitrophenol	3.32	0.500	1.00	ug/L	2	4.00	---	83	23 - 143%	5	30%	Q-31
4,6-Dinitro-2-methylphenol	3.27	0.500	1.00	ug/L	2	4.00	---	82	44 - 137%	6	30%	
2-Methylphenol	2.64	0.0500	0.100	ug/L	2	4.00	---	66	30 - 120%	3	30%	
3+4-Methylphenol(s)	2.50	0.0500	0.100	ug/L	2	4.00	---	63	29 - 120%	0.8	30%	
2-Nitrophenol	2.91	0.200	0.400	ug/L	2	4.00	---	73	47 - 123%	8	30%	
4-Nitrophenol	1.63	0.400	0.400	ug/L	2	4.00	---	41	10 - 120%	15	30%	
Pentachlorophenol (PCP)	3.88	0.200	0.400	ug/L	2	4.00	---	97	35 - 138%	5	30%	B-02
Phenol	1.25	0.400	0.800	ug/L	2	4.00	---	31	10 - 120%	0.3	30%	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (1012508-BSD1)	Prepared: 01/05/21 10:52					Analyzed: 01/06/21 20:57					Q-19	
2,3,4,6-Tetrachlorophenol	3.51	0.100	0.200	ug/L	2	4.00	---	88	50 - 128%	0.2	30%	B-02
2,3,5,6-Tetrachlorophenol	3.79	0.100	0.200	ug/L	2	4.00	---	95	50 - 121%	0.3	30%	B-02
2,4,5-Trichlorophenol	3.40	0.100	0.200	ug/L	2	4.00	---	85	53 - 123%	3	30%	
Nitrobenzene	2.84	0.200	0.400	ug/L	2	4.00	---	71	45 - 121%	8	30%	
2,4,6-Trichlorophenol	3.45	0.100	0.200	ug/L	2	4.00	---	86	50 - 125%	5	30%	
Bis(2-ethylhexyl)phthalate	3.84	0.400	0.800	ug/L	2	4.00	---	96	55 - 135%	5	30%	
Butyl benzyl phthalate	4.14	0.400	0.800	ug/L	2	4.00	---	103	53 - 134%	5	30%	
Diethylphthalate	3.50	0.400	0.800	ug/L	2	4.00	---	87	56 - 125%	0.1	30%	
Dimethylphthalate	3.44	0.400	0.800	ug/L	2	4.00	---	86	45 - 127%	4	30%	
Di-n-butylphthalate	4.03	0.400	0.800	ug/L	2	4.00	---	101	59 - 127%	7	30%	
Di-n-octyl phthalate	4.13	0.400	0.800	ug/L	2	4.00	---	103	51 - 140%	6	30%	
N-Nitrosodimethylamine	1.74	0.0500	0.100	ug/L	2	4.00	---	44	10 - 120%	5	30%	
N-Nitroso-di-n-propylamine	3.08	0.0500	0.100	ug/L	2	4.00	---	77	49 - 120%	8	30%	
N-Nitrosodiphenylamine	3.49	0.0500	0.100	ug/L	2	4.00	---	87	51 - 123%	1	30%	
Bis(2-Chloroethoxy) methane	2.81	0.0500	0.100	ug/L	2	4.00	---	70	48 - 120%	10	30%	
Bis(2-Chloroethyl) ether	2.60	0.0500	0.100	ug/L	2	4.00	---	65	43 - 120%	9	30%	
2,2'-Oxybis(1-Chloropropane)	2.55	0.0500	0.100	ug/L	2	4.00	---	64	37 - 130%	9	30%	
Hexachlorobenzene	3.26	0.0200	0.0400	ug/L	2	4.00	---	81	53 - 125%	0.5	30%	
Hexachlorobutadiene	1.78	0.0500	0.100	ug/L	2	4.00	---	45	22 - 124%	8	30%	
Hexachlorocyclopentadiene	2.01	0.100	0.200	ug/L	2	4.00	---	50	10 - 127%	13	30%	
Hexachloroethane	1.75	0.0500	0.100	ug/L	2	4.00	---	44	21 - 120%	9	30%	
2-Chloronaphthalene	2.50	0.0200	0.0400	ug/L	2	4.00	---	63	40 - 120%	3	30%	
1,2,4-Trichlorobenzene	1.96	0.0500	0.100	ug/L	2	4.00	---	49	29 - 120%	2	30%	
4-Bromophenyl phenyl ether	3.34	0.0500	0.100	ug/L	2	4.00	---	83	55 - 124%	0.7	30%	
4-Chlorophenyl phenyl ether	3.01	0.0500	0.100	ug/L	2	4.00	---	75	53 - 121%	2	30%	
Aniline	2.27	0.100	0.200	ug/L	2	4.00	---	57	10 - 120%	6	30%	
4-Chloroaniline	2.93	0.0500	0.100	ug/L	2	4.00	---	73	33 - 120%	7	30%	
2-Nitroaniline	3.32	0.400	0.800	ug/L	2	4.00	---	83	55 - 127%	4	30%	
3-Nitroaniline	3.13	0.400	0.800	ug/L	2	4.00	---	78	41 - 128%	0.5	30%	
4-Nitroaniline	3.14	0.400	0.800	ug/L	2	4.00	---	78	54 - 128%	10	30%	
2,4-Dinitrotoluene	3.40	0.200	0.400	ug/L	2	4.00	---	85	57 - 128%	0.1	30%	
2,6-Dinitrotoluene	3.14	0.200	0.400	ug/L	2	4.00	---	79	57 - 124%	4	30%	
Benzoic acid	3.99	2.50	2.50	ug/L	2	8.00	---	50	10 - 120%	7	30%	
Benzyl alcohol	2.93	0.200	0.400	ug/L	2	4.00	---	73	31 - 120%	4	30%	B-02

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (1012508-BSD1)						Prepared: 01/05/21 10:52 Analyzed: 01/06/21 20:57						Q-19
Isophorone	3.18	0.0500	0.100	ug/L	2	4.00	---	80	42 - 124%	9	30%	
Azobenzene (1,2-DPH)	3.11	0.0500	0.100	ug/L	2	4.00	---	78	61 - 120%	1	30%	
Bis(2-Ethylhexyl) adipate	3.86	0.500	1.00	ug/L	2	4.00	---	96	57 - 136%	4	30%	
3,3'-Dichlorobenzidine	9.45	1.00	2.00	ug/L	2	8.00	---	118	27 - 129%	11	30%	
1,2-Dinitrobenzene	3.25	0.500	1.00	ug/L	2	4.00	---	81	59 - 120%	1	30%	
1,3-Dinitrobenzene	3.24	0.500	1.00	ug/L	2	4.00	---	81	49 - 128%	3	30%	
1,4-Dinitrobenzene	3.19	0.500	1.00	ug/L	2	4.00	---	80	72 - 130%	2	30%	
Pyridine	1.42	0.200	0.400	ug/L	2	4.00	---	36	10 - 120%	5	30%	
1,2-Dichlorobenzene	1.85	0.0500	0.100	ug/L	2	4.00	---	46	32 - 120%	5	30%	
1,3-Dichlorobenzene	1.72	0.0500	0.100	ug/L	2	4.00	---	43	28 - 120%	5	30%	
1,4-Dichlorobenzene	1.75	0.0500	0.100	ug/L	2	4.00	---	44	29 - 120%	5	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 2x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>61 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>25 %</i>		<i>10-133 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>84 %</i>		<i>50-134 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>38 %</i>		<i>19-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>88 %</i>		<i>43-140 %</i>		<i>"</i>						

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8270E)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012508 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1012508-BLK1)	Prepared: 01/05/21 10:52 Analyzed: 01/07/21 10:00											
<u>EPA 8270E TICs</u>												
See TIC Report	0.0			ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 1012691 - EPA 3015A						Water						
Blank (1012691-BLK1)		Prepared: 01/08/21 11:45			Analyzed: 01/08/21 20:47							
EPA 200.8												
Aluminum	ND	0.0250	0.0500	mg/L	1	---	---	---	---	---	---	
Antimony	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Arsenic	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Beryllium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Cadmium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Calcium	0.395	0.300	0.600	mg/L	1	---	---	---	---	---	---	B-02, J
Chromium	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Copper	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
Iron	ND	0.0250	0.0500	mg/L	1	---	---	---	---	---	---	
Lead	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Magnesium	0.0516	0.0500	0.100	mg/L	1	---	---	---	---	---	---	B-02, J
Mercury	ND	0.0000400	0.0000800	mg/L	1	---	---	---	---	---	---	
Nickel	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
Selenium	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	
Silver	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Thallium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	
Zinc	ND	0.00200	0.00400	mg/L	1	---	---	---	---	---	---	

LCS (1012691-BS1)		Prepared: 01/08/21 11:45			Analyzed: 01/08/21 20:51							
EPA 200.8												
Aluminum	2.84	0.0250	0.0500	mg/L	1	2.78	---	102	85 - 115%	---	---	
Antimony	0.0270	0.000500	0.00100	mg/L	1	0.0278	---	97	85 - 115%	---	---	
Arsenic	0.0561	0.000500	0.00100	mg/L	1	0.0556	---	101	85 - 115%	---	---	
Beryllium	0.0267	0.000100	0.000200	mg/L	1	0.0278	---	96	85 - 115%	---	---	
Cadmium	0.0542	0.000100	0.000200	mg/L	1	0.0556	---	98	85 - 115%	---	---	
Calcium	2.94	0.300	0.600	mg/L	1	2.78	---	106	85 - 115%	---	---	B-02
Chromium	0.0563	0.000500	0.00100	mg/L	1	0.0556	---	101	85 - 115%	---	---	
Copper	0.0584	0.00100	0.00200	mg/L	1	0.0556	---	105	85 - 115%	---	---	
Iron	2.98	0.0250	0.0500	mg/L	1	2.78	---	107	85 - 115%	---	---	
Lead	0.0547	0.000100	0.000200	mg/L	1	0.0556	---	98	85 - 115%	---	---	
Magnesium	2.87	0.0500	0.100	mg/L	1	2.78	---	103	85 - 115%	---	---	B-02
Mercury	0.00109	0.0000400	0.0000800	mg/L	1	0.00111	---	98	85 - 115%	---	---	
Nickel	0.0586	0.00100	0.00200	mg/L	1	0.0556	---	105	85 - 115%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012691 - EPA 3015A												
Water												
LCS (1012691-BS1)												
			Prepared: 01/08/21 11:45			Analyzed: 01/08/21 20:51						
Selenium	0.0272	0.000500	0.00100	mg/L	1	0.0278	---	98	85 - 115%	---	---	
Silver	0.0273	0.000100	0.000200	mg/L	1	0.0278	---	98	85 - 115%	---	---	
Thallium	0.0276	0.000100	0.000200	mg/L	1	0.0278	---	100	85 - 115%	---	---	
Zinc	0.0576	0.00200	0.00400	mg/L	1	0.0556	---	104	85 - 115%	---	---	

Matrix Spike (1012691-MS2)			Prepared: 01/08/21 11:45			Analyzed: 01/08/21 22:38						
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QC Source Sample: North Ridge Terrace (A1A0055-02)

EPA 200.8

Aluminum	3.69	0.0250	0.0500	mg/L	1	2.78	0.884	101	70 - 130%	---	---	
Antimony	0.0274	0.000500	0.00100	mg/L	1	0.0278	ND	98	70 - 130%	---	---	
Arsenic	0.0561	0.000500	0.00100	mg/L	1	0.0556	0.00158	98	70 - 130%	---	---	
Beryllium	0.0265	0.000100	0.000200	mg/L	1	0.0278	ND	95	70 - 130%	---	---	
Cadmium	0.0535	0.000100	0.000200	mg/L	1	0.0556	ND	96	70 - 130%	---	---	
Calcium	7.08	0.300	0.600	mg/L	1	2.78	4.35	98	70 - 130%	---	---	B-02
Chromium	0.0568	0.000500	0.00100	mg/L	1	0.0556	0.00184	99	70 - 130%	---	---	
Copper	0.0681	0.00100	0.00200	mg/L	1	0.0556	0.0107	103	70 - 130%	---	---	
Iron	4.03	0.0250	0.0500	mg/L	1	2.78	1.07	107	70 - 130%	---	---	
Lead	0.0559	0.000100	0.000200	mg/L	1	0.0556	0.00216	97	70 - 130%	---	---	
Magnesium	3.47	0.0500	0.100	mg/L	1	2.78	0.677	101	70 - 130%	---	---	B-02
Mercury	0.00112	0.0000400	0.0000800	mg/L	1	0.00111	ND	101	70 - 130%	---	---	
Nickel	0.0603	0.00100	0.00200	mg/L	1	0.0556	0.00201	105	70 - 130%	---	---	
Selenium	0.0265	0.000500	0.00100	mg/L	1	0.0278	ND	95	70 - 130%	---	---	
Silver	0.0274	0.000100	0.000200	mg/L	1	0.0278	ND	99	70 - 130%	---	---	
Thallium	0.0277	0.000100	0.000200	mg/L	1	0.0278	ND	100	70 - 130%	---	---	
Zinc	0.0965	0.00200	0.00400	mg/L	1	0.0556	0.0416	99	70 - 130%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012732 - Method Prep: Aq						Water						
Blank (1012732-BLK1)		Prepared: 01/11/21 12:27 Analyzed: 01/12/21 13:30										
SM 5310 C												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	---
LCS (1012732-BS1)		Prepared: 01/11/21 12:27 Analyzed: 01/12/21 14:01										
SM 5310 C												
Total Organic Carbon	11.1	1.00	1.00	mg/L	1	10.0	---	111	90 - 114%	---	---	---

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012609 - Method Prep: Aq						Water						
Duplicate (1012609-DUP1)		Prepared: 01/07/21 07:50 Analyzed: 01/07/21 08:55										
<u>QC Source Sample: W Valley View (A1A0055-01)</u>												
<u>SM 4500-H+ B</u>												
pH	7.81			pH Units	1	---	7.75	---	---	0.8	2%	H-12
pH Temperature (deg C)	17.9			pH Units	1	---	18.5	---	---	3	30%	H-12
Reference (1012609-SRM1)		Prepared: 01/07/21 07:50 Analyzed: 01/07/21 08:51										
<u>SM 4500-H+ B</u>												
pH	6.01			pH Units	1	6.00		100	98.33333 - 101.6667%	---	---	
pH Temperature (deg C)	21.5			pH Units	1	20.0		108	50 - 200%	---	---	
Reference (1012609-SRM2)		Prepared: 01/07/21 07:50 Analyzed: 01/07/21 09:02										
<u>SM 4500-H+ B</u>												
pH	7.94			pH Units	1	8.00		99	98.75 - 101.25%	---	---	
pH Temperature (deg C)	21.4			pH Units	1	20.0		107	50 - 200%	---	---	
Reference (1012609-SRM3)		Prepared: 01/07/21 07:50 Analyzed: 01/07/21 16:15										
<u>SM 4500-H+ B</u>												
pH	6.00			pH Units	1	6.00		100	98.33333 - 101.6667%	---	---	
pH Temperature (deg C)	22.3			pH Units	1	20.0		112	50 - 200%	---	---	
Reference (1012609-SRM4)		Prepared: 01/07/21 07:50 Analyzed: 01/07/21 16:19										
<u>SM 4500-H+ B</u>												
pH	7.94			pH Units	1	8.00		99	98.75 - 101.25%	---	---	
pH Temperature (deg C)	22.2			pH Units	1	20.0		111	50 - 200%	---	---	

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ANALYTICAL REPORT

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Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: **Jennie Morgan**

Report ID:

A1A0055 - 05 06 21 1636

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012539							
A1A0055-01	Water	NWTPH-Dx	12/30/20 17:30	01/06/21 17:28	1030mL/5mL	1000mL/5mL	0.97
A1A0055-02	Water	NWTPH-Dx	12/30/20 18:15	01/06/21 17:28	1010mL/5mL	1000mL/5mL	0.99

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012767							
A1A0055-01	Water	NWTPH-Dx/SG	12/30/20 17:30	01/06/21 17:28	1030mL/5mL	1000mL/5mL	0.97
A1A0055-02	Water	NWTPH-Dx/SG	12/30/20 18:15	01/06/21 17:28	1010mL/5mL	1000mL/5mL	0.99

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012451							
A1A0055-01	Water	NWTPH-Gx (MS)	12/30/20 17:30	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00
A1A0055-02	Water	NWTPH-Gx (MS)	12/30/20 18:15	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012451							
A1A0055-01	Water	EPA 8260D	12/30/20 17:30	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00
A1A0055-02	Water	EPA 8260D	12/30/20 18:15	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00

Tentatively Identified Compounds by GC/MS (8260D)

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012451							
A1A0055-01	Water	8260D TICs	12/30/20 17:30	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00
A1A0055-02	Water	8260D TICs	12/30/20 18:15	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: **Jennie Morgan**

Report ID:

A1A0055 - 05 06 21 1636

SAMPLE PREPARATION INFORMATION

Oxygenates by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012451							
A1A0055-01	Water	EPA 8260D	12/30/20 17:30	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00
A1A0055-02	Water	EPA 8260D	12/30/20 18:15	01/06/21 10:39	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012508							
A1A0055-01RE1	Water	EPA 8270E	12/30/20 17:30	01/05/21 10:52	1030mL/1mL	1000mL/1mL	0.97
A1A0055-02RE1	Water	EPA 8270E	12/30/20 18:15	01/05/21 10:52	970mL/1mL	1000mL/1mL	1.03

Tentatively Identified Compounds by GC/MS (8270E)

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012508							
A1A0055-01RE1	Water	EPA 8270E TICs	12/30/20 17:30	01/05/21 10:52	1030mL/1mL	1000mL/2mL	0.49

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012691							
A1A0055-01	Water	EPA 200.8	12/30/20 17:30	01/08/21 11:45	45mL/50mL	45mL/50mL	1.00
A1A0055-01RE1	Water	EPA 200.8	12/30/20 17:30	01/08/21 11:45	45mL/50mL	45mL/50mL	1.00
A1A0055-02	Water	EPA 200.8	12/30/20 18:15	01/08/21 11:45	45mL/50mL	45mL/50mL	1.00

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1012732							
A1A0055-01	Water	SM 5310 C	12/30/20 17:30	01/11/21 12:27	40mL/40mL	40mL/40mL	1.00
A1A0055-02	Water	SM 5310 C	12/30/20 18:15	01/11/21 12:27	40mL/40mL	40mL/40mL	1.00

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]

Project Manager: **Jennie Morgan**

Report ID:

A1A0055 - 05 06 21 1636

SAMPLE PREPARATION INFORMATION

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 1012609</u>							
A1A0055-01	Water	SM 4500-H+ B	12/30/20 17:30	01/07/21 07:50	20mL/20mL	20mL/20mL	NA
A1A0055-02	Water	SM 4500-H+ B	12/30/20 18:15	01/07/21 07:50	20mL/20mL	20mL/20mL	NA

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd
Central Point, OR 97502

Project: **Alameda Post Fire Monitoring**

Project Number: [none]
Project Manager: Jennie Morgan

Report ID:
A1A0055 - 05 06 21 1636

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-15** Results for diesel are estimated due to overlap from the reported oil result.
- F-16** Results for oil are estimated due to overlap from the reported diesel result.
- H-12** Sample analysis was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- PRES** Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- V-01** Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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Amy Patton For Kurt Johnson, Senior Chemist

05/06/2021

This report is complete only with included TIC Reports

Page 50 of 91

Page 50 of 55



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client/Address, Project/Manager, and Report ID. Client: Rogue Valley Sewer Services, 138 W Vilas Rd, Central Point, OR 97502. Project: Alameda Post Fire Monitoring, Project Number: [none], Project Manager: Jennie Morgan. Report ID: A1A0055 - 05 06 21 1636.

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported.
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis. The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry") See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
"" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amy Patton signature

Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Rogue Valley Sewer Services), Project (Alameda Post Fire Monitoring), and Report ID (A1A0055 - 05 06 21 1636).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Amy Patton signature

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Rogue Valley Sewer Services), Project (Alameda Post Fire Monitoring), and Report ID (A1A0055 - 05 06 21 1636)

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation. Lists EPA 8270E TICs and 8260D TICs.

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

[Signature of Amy Patton]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire Monitoring Project Number: [none] Project Manager: Jennie Morgan	Report ID: A1A0055 - 05 06 21 1636
---	---	--

FORENSICS CHAIN OF CUSTODY

6700 SW Sandburg St., Tigard, OR 97223 forensics@apex-labs.com Ph: 503-718-2323

APEX LABORATORIES

COC of _____
Lab # **A1A0055**

Project Name: Alameda Fire post fire monitoring
Project #/PO# _____

Project Mgr: Jennie Morgan Email: jmorgan@rvss.us
Phone: 541-727-6876

Send Invoice To: Same as above Other: **Contact Amy Patton w/ Apex for questions on analysis**

Sampled by: **Jennie Morgan**

Send Report To: **Rogue Valley Sewer Services**

Address: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ASTM D798-10	ASTM D2887-14	ASTM D6730-01 Cryogenic	Detailed Hydrocarbon Analysis (DHA)	BTEXN by DHA	Forensic Parent & Alkylated PAHs (PAH Homologs) and Isoprend Evaluation	Organic Lead and Manganese Speciation	Total Lead and Manganese	Filtered Total Lead and Manganese	Forensic VOCs for Gasoline Contaminated Sites	Forensic VOCs for Gasoline Contaminated Sites (Water Soluble Fraction)	Forensic VOCs for Unidentified or Specialty Contaminants	Forensic VOCs for Unidentified or Specialty Contaminants + TICS	8015M TPH-Gas (C6-C10)	8015M TPH-D / TPH-MO (C10-C36)	8015M TPH-D / TPH-MO (C10-C36) with Silica Gel Column	Forensic Vapor Analysis TICS	DNAPL Fingerprint	EWTPH-Dx	EPA 200.8 PF Metals plus Aluminum	NOTES	
1	12-30	17:20	W	9																						
2	12-30	18:15	W	9																						
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Turnaround Time Requested (Circle): 1 DAY 2 DAY 5 DAY Other: _____

Sample Storage Required:
 Dispose after 30 days (No Charge)
 Long Term Evidence Storage (\$50 per quarter, up to 20 samples)

Special Instructions:
Use Indry codes vs Forensic VOC at gas site code. Want full VOC TIC scan

RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: Jennie Morgan Date: 1-4-21 Time: 1:42	RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: Jennie Morgan Date: 1-5-21 Time: 8:30	RECEIVED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____
--	--	--



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services
138 W Vilas Rd
Central Point, OR 97502

Project: Alameda Post Fire Monitoring
Project Number: [none]
Project Manager: Jennie Morgan

Report ID:
A1A0055 - 05 06 21 1636

APEX LABS COOLER RECEIPT FORM

Client: Rogue Valley Sewer Services ^{1/5/21} Element WO#: A1A0055

Project/Project #: Alameda Fire Post Fire Monitoring

Delivery Info:

Date/time received: 1/5/21 @ 8:30 By: KMS
Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 1/5/21 @ 8:30 By: KMS

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.6</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition:	<u>Good</u>						

Cooler out of temp? (Y/N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 1/5/21 @ 9:44 By: SP

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: 1 on 2/3 VOAS W Valley View roads 1740, IDs on North Ridge Terrace containers vary, 2x TBs received but not listed on COC * COC *

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: HS in all VOAS

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: 2/2 W Valley View HNO3 polys pH = 7

Additional information: 8137 7797 1271 * COC tests 9 containers for W Valley View, received 8 (SP) 1/5/21

Labeled by: (SP)

Witness: (Signature)

Cooler Inspected by: (SP)

(Signature)

Tentatively Identified Compound (TIC) Report

8260D TICs (Forensics)

Tentatively Identified Compounds (TICs)

In addition to the standard analyte list of approximately 70 VOCs eluting from 36°C to 235°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. According to EPA protocol, only compounds from the library search with qualifiers above 85 are considered probable matches. The tentatively identified compound report provides estimated concentrations not based on instrument calibration of the specific compound. Estimated concentrations require correction for dilution factors, prep factors and moisture content when applicable.

Library Search Compound Report

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010606.D
Acq On : 6 Jan 2021 10:53 am
Operator : PS
Sample : 1012451-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

WDM 1/7/21

Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds

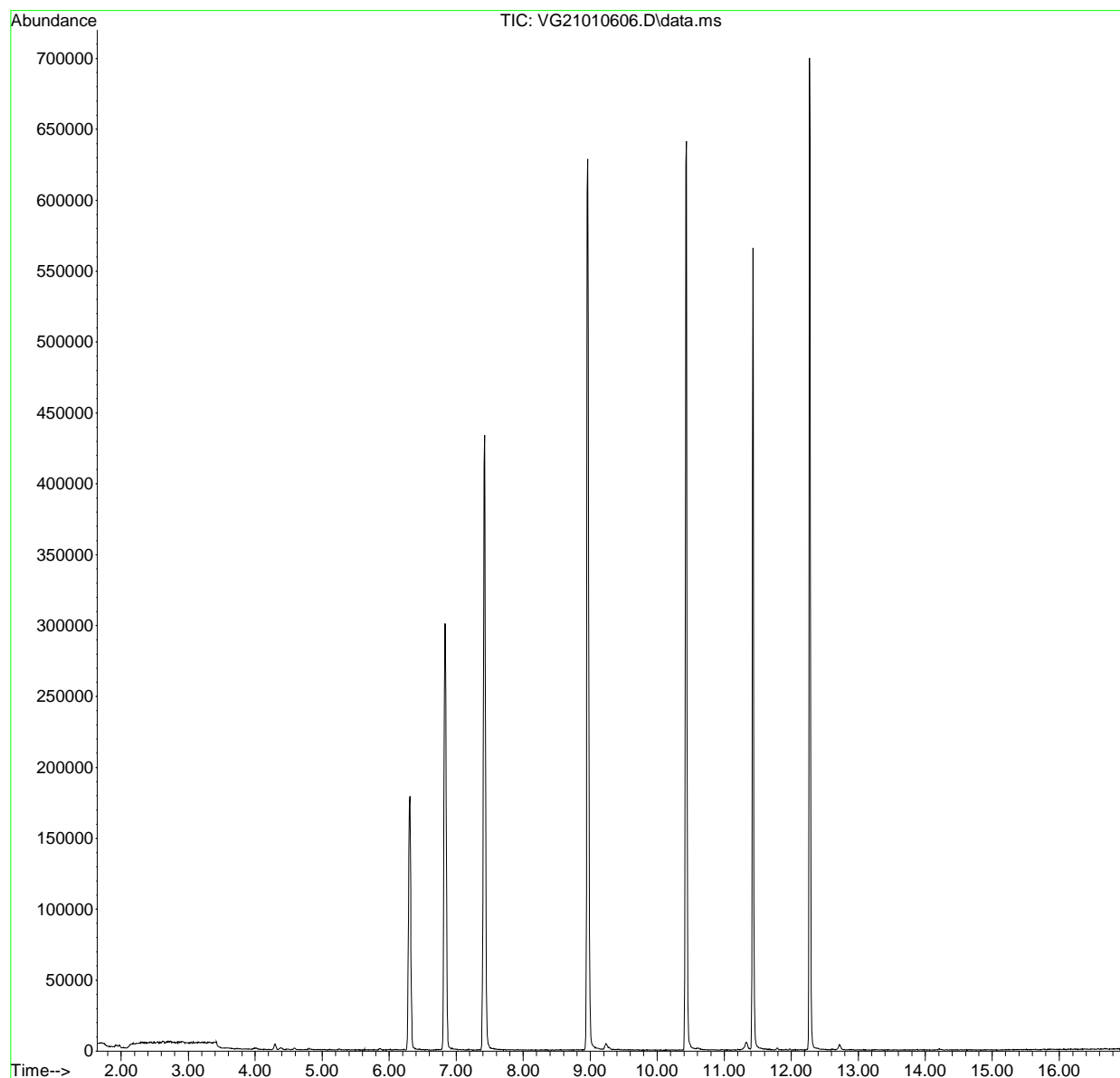
TIC Library : C:\Database\NIST129K.L
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010606.D
Acq On : 6 Jan 2021 10:53 am
Operator : PS
Sample : 1012451-BLK1
Misc : 1X 5mL DI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 13:53:54 2021
Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Fri Dec 18 22:24:56 2020
Response via : Initial Calibration



Library Search Compound Report

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010620.D
Acq On : 6 Jan 2021 6:08 pm
Operator : PS
Sample : A1A0055-01
Misc : 1X 5mL 8260D/OXY/GX HS
ALS Vial : 20 Sample Multiplier: 1

MM 1/7/21

Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds

TIC Library : C:\Database\NIST129K.L
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010620.D
 Acq On : 6 Jan 2021 6:08 pm
 Operator : PS
 Sample : A1A0055-01
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 20 Sample Multiplier: 1

WMM 1/7/21

Quant Time: Jan 07 13:58:22 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.831	99	116054	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	10.428	117	305586	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	149581	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.307	111	116602	50.62	ug/L	0.01
39) 1,4-Difluorobenzene (S)	7.422	114	345118	51.09	ug/L	0.01
48) Toluene-d8 (S)	8.965	98	401216	51.04	ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.428	174	125771	49.30	ug/L	0.00
Target Compounds						
2) Dichlorodifluoromethane	0.000		0	N.D.	d	Qvalue
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl Chloride	0.000		0	N.D.	d	
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.	d	
8) Ethanol	0.000		0	N.D.	d	
9) 1,1-Dichloroethene	0.000		0	N.D.	d	
10) Carbon Disulfide	0.000		0	N.D.	d	
11) Freon 113	0.000		0	N.D.	d	
12) Iodomethane	0.000		0	N.D.	d	
13) Acrolein	0.000		0	N.D.	d	
14) Methylene Chloride	0.000		0	N.D.	d	
15) Acetone	0.000		0	N.D.	d	
16) t-1,2-Dichloroethene	0.000		0	N.D.	d	
17) n-Hexane	0.000		0	N.D.	d	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	d	
19) tert-Butanol (TBA)	0.000		0	N.D.	d	
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	d	
21) 1,1-Dichloroethane	0.000		0	N.D.	d	
22) Acrylonitrile	0.000		0	N.D.	d	
23) Vinyl Acetate	0.000		0	N.D.	d	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d	
25) c-1,2-Dichloroethene	0.000		0	N.D.	d	
26) 2,2-Dichloropropane	0.000		0	N.D.	d	

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010620.D
 Acq On : 6 Jan 2021 6:08 pm
 Operator : PS
 Sample : A1A0055-01
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 07 13:58:22 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Bromochloromethane	0.000		0	N.D.		
28) Chloroform	0.000		0	N.D.	d	
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	0.000		0	N.D.	d	
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	0.000		0	N.D.		
34) 2-Butanone (MEK)	0.000		0	N.D.	d	
35) Benzene	0.000		0	N.D.	d	
36) tert-Amyl methyl ether...	0.000		0	N.D.	d	
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.	d	
40) Trichloroethene (TCE)	0.000		0	N.D.	d	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	0.000		0	N.D.	d	
44) Bromodichloromethane	0.000		0	N.D.		
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d	
47) c-1,3-Dichloropropene	0.000		0	N.D.		
49) Toluene	0.000		0	N.D.	d	
50) Tetrachloroethene (PCE)	0.000		0	N.D.	d	
51) 4-Methyl-2-Pentanone (...)	0.000		0	N.D.	d	
52) t-1,3-Dichloropropene	0.000		0	N.D.	d	
53) 1,1,2-Trichloroethane	0.000		0	N.D.		
54) Dibromochloromethane	0.000		0	N.D.		
55) 1,3-Dichloropropane	0.000		0	N.D.		
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.		
57) 2-Hexanone	0.000		0	N.D.	d	
58) Chlorobenzene	0.000		0	N.D.	d	
59) Ethylbenzene	0.000		0	N.D.	d	
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
61) m,p-Xylenes (2)	0.000		0	N.D.	d	
62) o-Xylene	0.000		0	N.D.	d	
63) Styrene	0.000		0	N.D.	d	
64) Bromoform	0.000		0	N.D.		
65) Isopropylbenzene	0.000		0	N.D.	d	
68) Bromobenzene	0.000		0	N.D.	d	
69) n-Propylbenzene	0.000		0	N.D.	d	

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010620.D
 Acq On : 6 Jan 2021 6:08 pm
 Operator : PS
 Sample : A1A0055-01
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 07 13:58:22 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

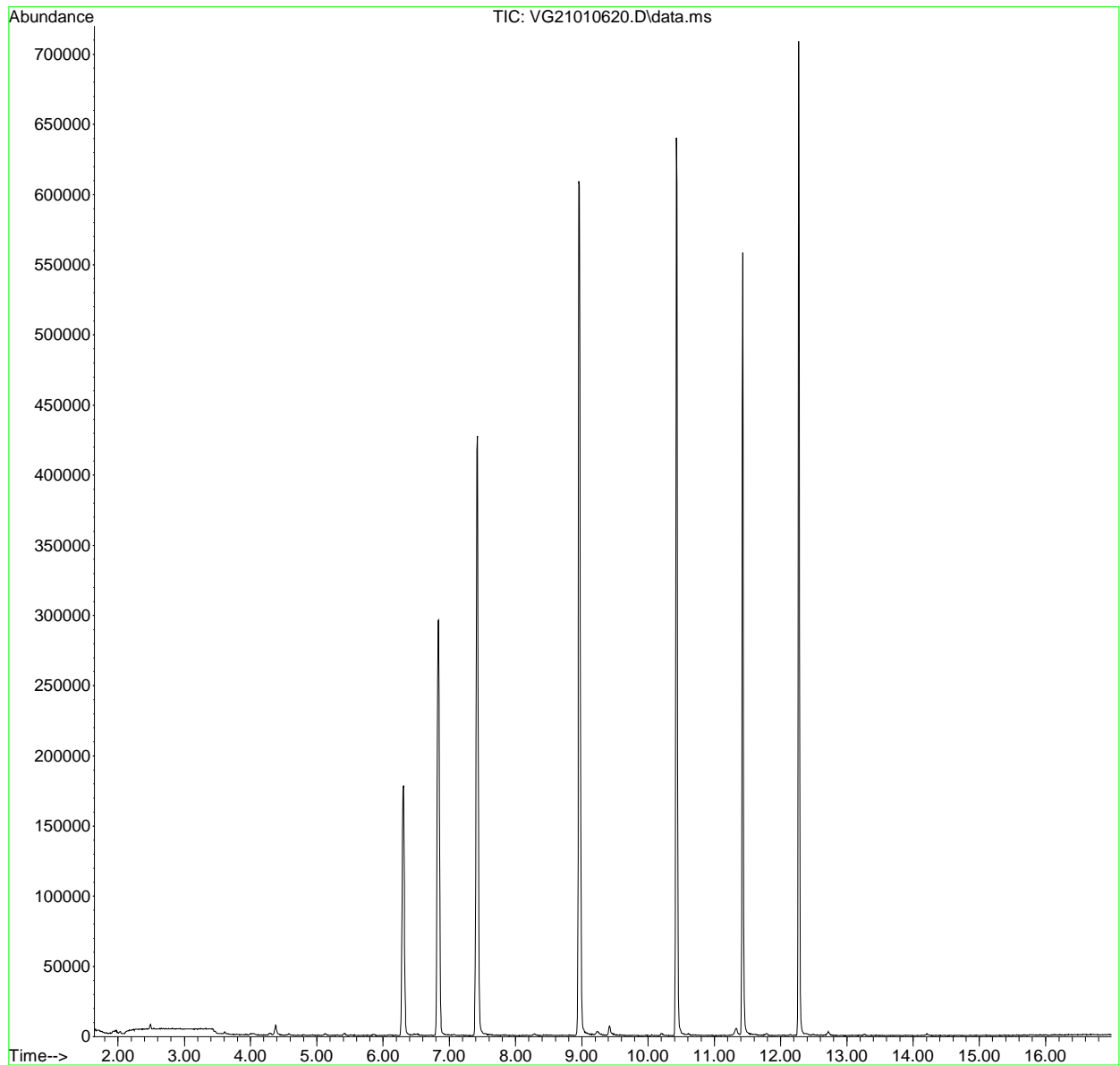
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
71) 2-Chlorotoluene	0.000		0		N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0		N.D.	d
73) 1,2,3-Trichloropropane	0.000		0		N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0		N.D.	d
75) 4-Chlorotoluene	0.000		0		N.D.	d
76) tert-Butylbenzene	0.000		0		N.D.	d
77) 1,2,4-Trimethylbenzene	0.000		0		N.D.	d
78) sec-Butylbenzene	0.000		0		N.D.	d
79) 4-Isopropyltoluene	0.000		0		N.D.	d
80) 1,3-Dichlorobenzene	0.000		0		N.D.	d
81) 1,4-Dichlorobenzene	0.000		0		N.D.	d
82) n-Butylbenzene	0.000		0		N.D.	d
83) 1,2-Dichlorobenzene	0.000		0		N.D.	d
84) 1,2-Dibromo-3-Chloropr...	0.000		0		N.D.	
85) Hexachlorobutadiene	0.000		0		N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0		N.D.	d
87) Naphthalene	0.000		0		N.D.	d
88) 1,2,3-Trichlorobenzene	0.000		0		N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010620.D
Acq On : 6 Jan 2021 6:08 pm
Operator : PS
Sample : A1A0055-01
Misc : 1X 5mL 8260D/OXY/GX HS
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 07 13:58:22 2021
Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Fri Dec 18 22:24:56 2020
Response via : Initial Calibration



Library Search Compound Report

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010621.D
Acq On : 6 Jan 2021 6:35 pm
Operator : PS
Sample : A1A0055-02
Misc : 1X 5mL 8260D/OXY/GX HS
ALS Vial : 21 Sample Multiplier: 1

MDM 1/7/21

Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds

TIC Library : C:\Database\NIST129K.L
TIC Integration Parameters: RTEINT.P

No Library Search Compounds Detected

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010621.D
 Acq On : 6 Jan 2021 6:35 pm
 Operator : PS
 Sample : A1A0055-02
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 21 Sample Multiplier: 1

MM 1/7/21

Quant Time: Jan 07 14:02:47 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	6.831	99	105093	50.00	ug/L	# 0.00
45) Chlorobenzene-d5 (I)	10.434	117	275720	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	12.275	152	134400	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	6.300	111	105517	50.59	ug/L	0.00
39) 1,4-Difluorobenzene (S)	7.422	114	311904	50.99	ug/L	0.01
48) Toluene-d8 (S)	8.958	98	362783	51.15	ug/L	0.00
67) 4-Bromofluorobenzene (S)	11.427	174	111336	48.57	ug/L	0.00
Target Compounds						
2) Dichlorodifluoromethane	0.000		0		N.D.	Qvalue
3) Chloromethane	0.000		0		N.D. d	
4) Vinyl Chloride	0.000		0		N.D.	
5) Bromomethane	0.000		0		N.D. d	
6) Chloroethane	0.000		0		N.D. d	
7) Trichlorofluoromethane	0.000		0		N.D.	
8) Ethanol	0.000		0		N.D. d	
9) 1,1-Dichloroethene	0.000		0		N.D.	
10) Carbon Disulfide	0.000		0		N.D. d	
11) Freon 113	0.000		0		N.D.	
12) Iodomethane	0.000		0		N.D. d	
13) Acrolein	0.000		0		N.D. d	
14) Methylene Chloride	0.000		0		N.D. d	
15) Acetone	0.000		0		N.D. d	
16) t-1,2-Dichloroethene	0.000		0		N.D. d	
17) n-Hexane	0.000		0		N.D.	
18) Methyl-tert-butyl-ether	0.000		0		N.D.	
19) tert-Butanol (TBA)	0.000		0		N.D. d	
20) Diisopropyl ether (DIPE)	0.000		0		N.D. d	
21) 1,1-Dichloroethane	0.000		0		N.D.	
22) Acrylonitrile	0.000		0		N.D.	
23) Vinyl Acetate	0.000		0		N.D. d	
24) Ethyl-tert-butyl ether...	0.000		0		N.D. d	
25) c-1,2-Dichloroethene	0.000		0		N.D.	
26) 2,2-Dichloropropane	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010621.D
 Acq On : 6 Jan 2021 6:35 pm
 Operator : PS
 Sample : A1A0055-02
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 07 14:02:47 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Bromochloromethane	0.000		0	N.D.	d	
28) Chloroform	0.000		0	N.D.	d	
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	0.000		0	N.D.	d	
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	0.000		0	N.D.		
34) 2-Butanone (MEK)	0.000		0	N.D.	d	
35) Benzene	0.000		0	N.D.	d	
36) tert-Amyl methyl ether...	0.000		0	N.D.	d	
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.	d	
40) Trichloroethene (TCE)	0.000		0	N.D.		
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	0.000		0	N.D.	d	
44) Bromodichloromethane	0.000		0	N.D.	d	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	d	
47) c-1,3-Dichloropropene	0.000		0	N.D.		
49) Toluene	9.019	91	2440	0.04	ug/L	94
50) Tetrachloroethene (PCE)	0.000		0	N.D.	d	
51) 4-Methyl-2-Pentanone (...)	0.000		0	N.D.	d	
52) t-1,3-Dichloropropene	0.000		0	N.D.	d	
53) 1,1,2-Trichloroethane	0.000		0	N.D.		
54) Dibromochloromethane	0.000		0	N.D.		
55) 1,3-Dichloropropane	0.000		0	N.D.		
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.		
57) 2-Hexanone	0.000		0	N.D.	d	
58) Chlorobenzene	0.000		0	N.D.	d	
59) Ethylbenzene	0.000		0	N.D.	d	
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
61) m,p-Xylenes (2)	0.000		0	N.D.	d	
62) o-Xylene	0.000		0	N.D.	d	
63) Styrene	0.000		0	N.D.		
64) Bromoform	0.000		0	N.D.		
65) Isopropylbenzene	0.000		0	N.D.	d	
68) Bromobenzene	0.000		0	N.D.	d	
69) n-Propylbenzene	0.000		0	N.D.	d	

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
 Data File : VG21010621.D
 Acq On : 6 Jan 2021 6:35 pm
 Operator : PS
 Sample : A1A0055-02
 Misc : 1X 5mL 8260D/OXY/GX HS
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 07 14:02:47 2021
 Quant Method : C:\msdchem\1\methods\VG201218W.M
 Quant Title : EPA 8260C: Volatile Organic Compounds
 QLast Update : Fri Dec 18 22:24:56 2020
 Response via : Initial Calibration

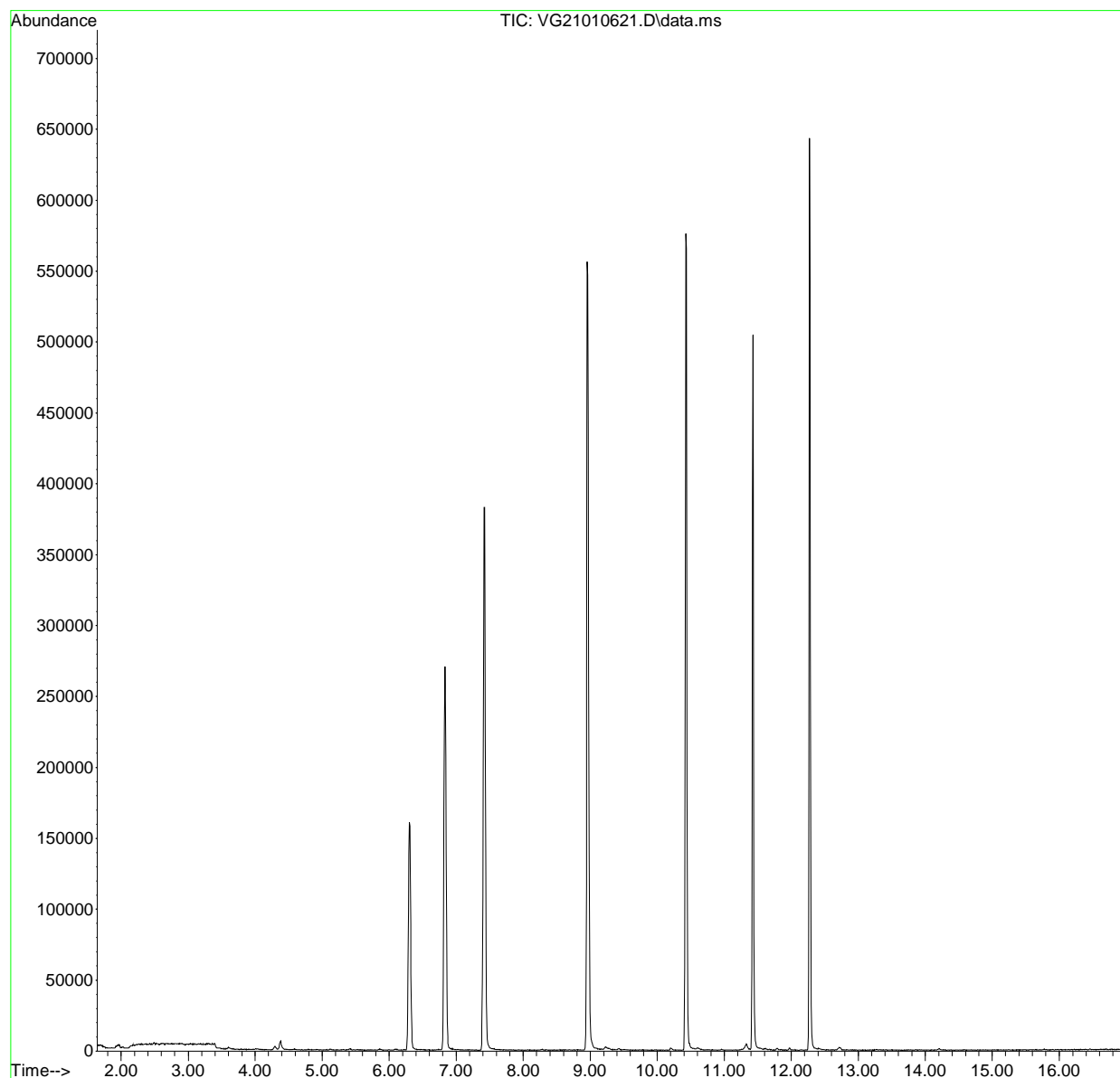
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
71) 2-Chlorotoluene	0.000		0		N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0		N.D.	d
73) 1,2,3-Trichloropropane	0.000		0		N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0		N.D.	
75) 4-Chlorotoluene	0.000		0		N.D.	d
76) tert-Butylbenzene	0.000		0		N.D.	d
77) 1,2,4-Trimethylbenzene	0.000		0		N.D.	d
78) sec-Butylbenzene	0.000		0		N.D.	d
79) 4-Isopropyltoluene	0.000		0		N.D.	d
80) 1,3-Dichlorobenzene	0.000		0		N.D.	d
81) 1,4-Dichlorobenzene	0.000		0		N.D.	d
82) n-Butylbenzene	0.000		0		N.D.	d
83) 1,2-Dichlorobenzene	0.000		0		N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0		N.D.	
85) Hexachlorobutadiene	0.000		0		N.D.	
86) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
87) Naphthalene	0.000		0		N.D.	d
88) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : N:\data\2021-01\1A06030\tics\
Data File : VG21010621.D
Acq On : 6 Jan 2021 6:35 pm
Operator : PS
Sample : A1A0055-02
Misc : 1X 5mL 8260D/OXY/GX HS
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 07 14:02:47 2021
Quant Method : C:\msdchem\1\methods\VG201218W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Fri Dec 18 22:24:56 2020
Response via : Initial Calibration



Tentatively Identified Compound (TIC) Report

8270E TICs (Forensics)

Tentatively Identified Compounds (TICs)

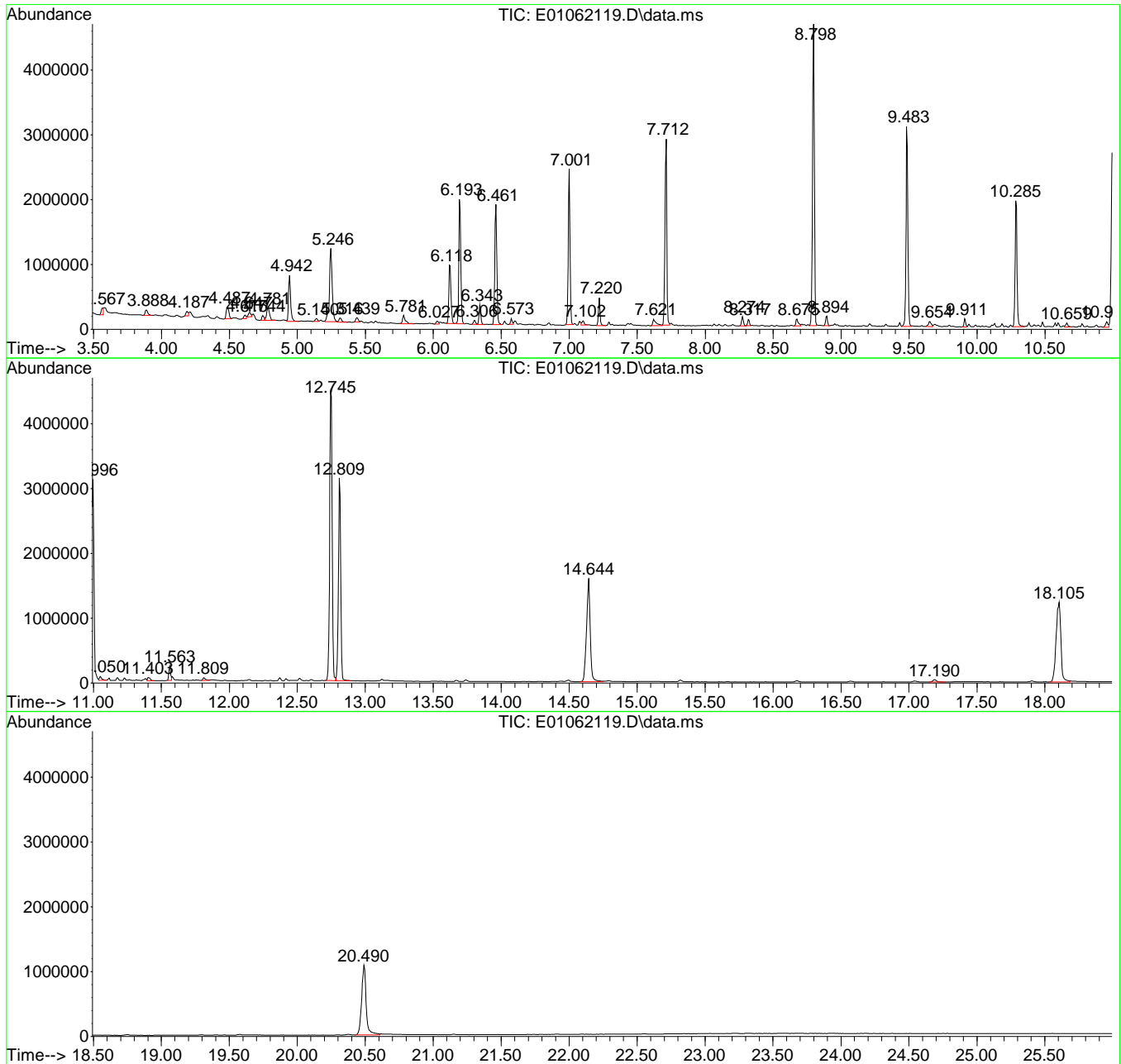
In addition to the standard analyte list of over 70 SVOCs eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. According to EPA protocol, only compounds from the library search with qualifiers above 85 are considered probable matches. The tentatively identified compound report provides estimated concentrations not based on instrument calibration of the specific compound. Estimated concentrations require correction for dilution factors, prep factors and moisture content when applicable.

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2021-01\1A06062\TICS\
Data File : E01062119.D
Acq On : 6 Jan 2021 7:43 pm
Operator : JK/ AMS /DTH
Sample : 1012508-BLK1
Misc : 1x, 8270E LL FULL LIST/625.1 FULL LIST/ FORENSICS 8270E TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A06062\TICs\
Data File : E01062119.D
Acq On : 6 Jan 2021 7:43 pm
Operator : JK/ AMS /DTH
Sample : 1012508-BLK1
Misc : 1x, 8270E LL FULL LIST/625.1 FULL LIST/ FORENSICS 8270E TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 .alpha.-Methylstyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.193	2036.66 ng/ml	1942650	1,4-Dichlorobenzene-d4 (ISTD)	6.461

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methylstyrene	118	C9H10	000098-83-9	97
2	.alpha.-Methylstyrene	118	C9H10	000098-83-9	95
3	.alpha.-Methylstyrene	118	C9H10	000098-83-9	93
4	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	52
5	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	49

Peak Number 2 Butyl citrate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.810	2308.58 ng/ml	3615640	Phenanthrene-d10 (ISTD)	10.996

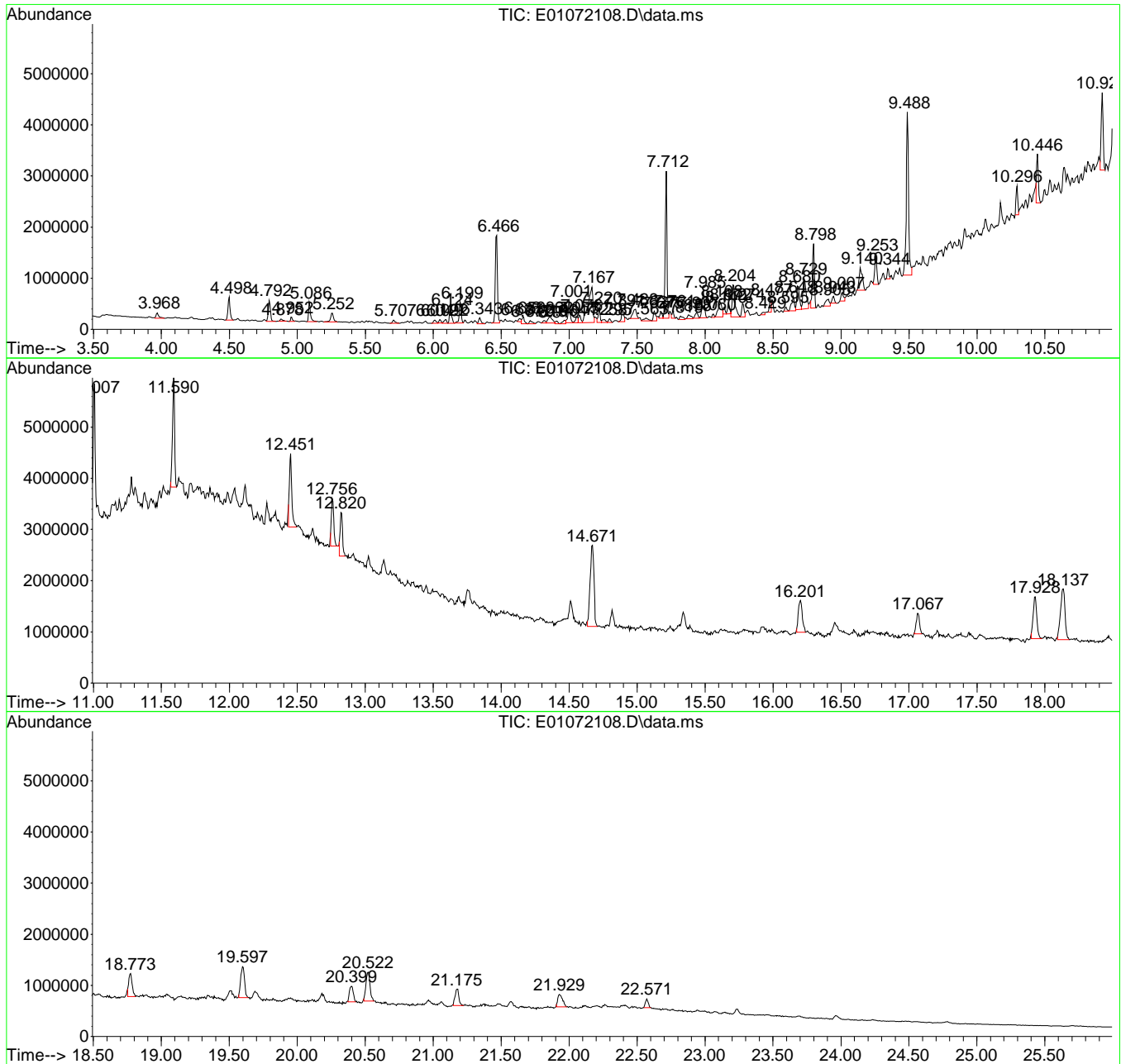
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	86
2	Butyl citrate	360	C18H32O7	000077-94-1	58
3	Tributyl acetylcitrate	402	C20H34O8	000077-90-7	47
4	Tributyl acetylcitrate	402	C20H34O8	000077-90-7	43
5	2-Bromo-benzoic acid (3-phenyl-a...	328	C16H13BrN2O	300802-72-6	42

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072108.D
 Acq On : 7 Jan 2021 12:43 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-01RE1@4
 Misc : 4x, 8270E LL Full List/Forensics TICs
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Butanone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.086	466.12 ng/ml	419199	1,4-Dichlorobenzene-d4 (ISTD)	6.466

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanone	72	C4H8O	000078-93-3	64
2	2-Butanone	72	C4H8O	000078-93-3	64
3	2-Butanone	72	C4H8O	000078-93-3	64
4	2-Butanone	72	C4H8O	000078-93-3	64
5	2-Butanone	72	C4H8O	000078-93-3	64

Peak Number 2 .alpha.-Methylstyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.199	467.03 ng/ml	420022	1,4-Dichlorobenzene-d4 (ISTD)	6.466

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methylstyrene	118	C9H10	000098-83-9	95
2	.alpha.-Methylstyrene	118	C9H10	000098-83-9	93
3	.alpha.-Methylstyrene	118	C9H10	000098-83-9	93
4	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	53
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	52

Peak Number 3 Hexanoic acid, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.167	1249.85 ng/ml	1691960	Naphthalene-d8 (ISTD)	7.712

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak	Name	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
3	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	53
4	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	40
5	1,4-Dioxane	88	C4H8O2	000123-91-1	37

Peak Number 4 Benzothiazole Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.985	358.89 ng/ml	485839	Naphthalene-d8 (ISTD)	7.712

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzothiazole	135	C7H5NS	000095-16-9	94
2		Benzothiazole	135	C7H5NS	000095-16-9	94
3		Benzothiazole	135	C7H5NS	000095-16-9	93
4		1,2-Benzisothiazole	135	C7H5NS	000272-16-2	83
5		3-Allylbenzothiazolium bromide	255	C10H10BrNS	016407-55-9	78

Peak Number 5 Phthalic anhydride Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.477	200.21 ng/ml	271035	Naphthalene-d8 (ISTD)	7.712

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phthalic anhydride	148	C8H4O3	000085-44-9	93
2		Phthalic anhydride	148	C8H4O3	000085-44-9	92
3		Pyridine, 3-methyl-	93	C6H7N	000108-99-6	78
4		1,2-Benzenedicarboxylic acid	166	C8H6O4	000088-99-3	52
5		Bicyclo[4.2.0]octa-1,3,5-triene-...	132	C8H4O2	006383-11-5	49

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 (1R,2R,3S,5R)-(-)-2,3-Pinan... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.729	374.67 ng/ml	716659	Acenaphthene-d10 (ISTD)	9.488

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R,2R,3S,5R)-(-)-2,3-Pinane-1,2-diol	170	C10H18O2	022422-34-0	50
2	2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	46
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	46
4	1-Butene, 2,3,3-trimethyl-	98	C7H14	000594-56-9	43
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	38

Peak Number 7 Ethanol, 2-[2-(2-butoxyethoxy)et... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.253	329.00 ng/ml	629289	Acenaphthene-d10 (ISTD)	9.488

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
2	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
3	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
4	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	87
5	3,6,9,12-Tetraoxahexadecan-1-ol	250	C12H26O5	001559-34-8	80

Peak Number 8 Pentadecane, 2,6,10,14-tetr... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.445	645.72 ng/ml	783089	Phenanthrene-d10 (ISTD)	11.007

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072108.D
 Acq On : 7 Jan 2021 12:43 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-01RE1@4
 Misc : 4x, 8270E LL Full List/Forensics TICs
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	83
2	Decane, 2-methyl-	156	C11H24	006975-98-0	80
3	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
4	Undecane, 6-ethyl-	184	C13H28	017312-60-6	72
5	Sulfurous acid, 2-ethylhexyl hep...	432	C25H52O3S	1000309-20-0	64

 Peak Number 9 Hexadecane, 2,6,10,14-tetra... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.922	1152.66 ng/ml	1397880	Phenanthrene-d10 (ISTD)	11.007

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	92
2		Eicosane	282	C20H42	000112-95-8	86
3		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
4		Heptadecane	240	C17H36	000629-78-7	83
5		Nonane, 5-butyl-	184	C13H28	017312-63-9	81

 Peak Number 10 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.590	1992.55 ng/ml	2416450	Phenanthrene-d10 (ISTD)	11.007

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3		Tridecanoic acid	214	C13H26O2	000638-53-9	90
4		Heptadecanoic acid	270	C17H34O2	000506-12-7	90
5		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.451	1436.48 ng/ml	1742090	Phenanthrene-d10 (ISTD)	11.007

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99
3	Octadecanoic acid	284	C18H36O2	000057-11-4	99
4	Octadecanoic acid	284	C18H36O2	000057-11-4	94
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	86

Peak Number 12 Butyl citrate Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.820	804.04 ng/ml	975101	Phenanthrene-d10 (ISTD)	11.007

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	78
2	Butyl citrate	360	C18H32O7	000077-94-1	58
3	Adipic acid, 2-heptyl isobutyl e...	300	C17H32O4	1000353-64-3	47
4	Tributyl acetylcitrate	402	C20H34O8	000077-90-7	46
5	Dibutyl adipate	258	C14H26O4	000105-99-7	40

Peak Number 13 Heptacosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.201	732.76 ng/ml	1097030	Chrysene-d12 (ISTD)	14.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak	Compound	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	99
2	Docosane	310	C22H46	000629-97-0	93
3	Octadecane	254	C18H38	000593-45-3	81
4	Hexacosane	366	C26H54	000630-01-3	76
5	Heneicosane	296	C21H44	000629-94-7	76

Peak Number 14 Octacosane Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.067	456.36 ng/ml	683233	Chrysene-d12 (ISTD)	14.671

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Octacosane	394	C28H58	000630-02-4	98
2		Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
3		Nonadecane	268	C19H40	000629-92-5	93
4		Tetracosane	338	C24H50	000646-31-1	91
5		2-Bromo dodecane	248	C12H25Br	013187-99-0	86

Peak Number 15 Triacontane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.928	2589.83 ng/ml	1526240	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Triacontane	422	C30H62	000638-68-6	96
2		Hexadecane	226	C16H34	000544-76-3	95
3		Heptacosane	380	C27H56	000593-49-7	94
4		Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
5		Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93

Library Search Compound Report

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 Data File : E01072108.D
 Acq On : 7 Jan 2021 12:43 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-01RE1@4
 Misc : 4x, 8270E LL Full List/Forensics TICs
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 16 Eicosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.773	1357.33 ng/ml	799897	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Hexacosane	366	C26H54	000630-01-3	93
3	Tetracosane	338	C24H50	000646-31-1	93
4	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	93
5	Hexadecane	226	C16H34	000544-76-3	90

 Peak Number 17 Heptadecane, 9-octyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.597	1980.62 ng/ml	1167210	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	96
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3	Octadecane	254	C18H38	000593-45-3	95
4	Heptacosane	380	C27H56	000593-49-7	94
5	Hexacosane	366	C26H54	000630-01-3	94

 Peak Number 18 Nonadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.399	742.63 ng/ml	437646	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	270	C19H38	000593-45-3	95

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak	Name	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Tetracosane	338	C24H50	000646-31-1	91
3	Hexacosane	366	C26H54	000630-01-3	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Hexatriacontane	507	C36H74	000630-06-8	91

Peak Number 19 Heptadecane Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.405	263.24 ng/ml	155134	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetracosane	338	C24H50	000646-31-1	93
2		Docosane, 11-butyl-	366	C26H54	013475-76-8	91
3		Heptadecane	240	C17H36	000629-78-7	91
4		Hexacosane	366	C26H54	000630-01-3	90
5		Tetratetracontane	619	C44H90	007098-22-8	87

Peak Number 20 Tetracosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.175	766.52 ng/ml	451724	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetracosane	338	C24H50	000646-31-1	99
2		Tetracosane	338	C24H50	000646-31-1	96
3		Heneicosane, 11-decyl-	437	C31H64	055320-06-4	90
4		Hexacosane	366	C26H54	000630-01-3	90
5		Octacosane	394	C28H58	000630-02-4	90

Library Search Compound Report

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Data File : E01072108.D
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Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 21 Octadecane Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.180	271.35 ng/ml	159913	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	95
2	Tricosane	324	C23H48	000638-67-5	93
3	Tritetracontane	605	C43H88	007098-21-7	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Octacosane	394	C28H58	000630-02-4	90

Peak Number 22 Docosane, 9-butyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.929	605.36 ng/ml	356752	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane, 9-butyl-	366	C26H54	055282-14-9	94
2	Docosane, 11-butyl-	366	C26H54	013475-76-8	91
3	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	91
4	Hexacosane	366	C26H54	000630-01-3	76
5	Heptadecane	240	C17H36	000629-78-7	74

Peak Number 23 Docosane, 11-butyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.929	243.68 ng/ml	143607	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072108.D
Acq On : 7 Jan 2021 12:43 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-01RE1@4
Misc : 4x, 8270E LL Full List/Forensics TICs
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

1 Docosane, 9-butyl-	366	C26H54	055282-14-9	94
2 Docosane, 11-butyl-	366	C26H54	013475-76-8	91
3 Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	91
4 Hexacosane	366	C26H54	000630-01-3	76
5 Heptadecane	240	C17H36	000629-78-7	74

Peak Number 24 Tetracosane, 3-ethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.571	365.98 ng/ml	215680	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.522

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptacosane	380	C27H56	000593-49-7	91
2		Tetracosane, 3-ethyl-	366	C26H54	055282-17-2	87
3		Sulfurous acid, dodecyl 2-propyl...	292	C15H32O3S	1000309-12-3	87
4		Hexacosane	366	C26H54	000630-01-3	87
5		Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	83

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072108.D
 Acq On : 7 Jan 2021 12:43 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-01RE1@4
 Misc : 4x, 8270E LL Full List/Forensics TICs
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

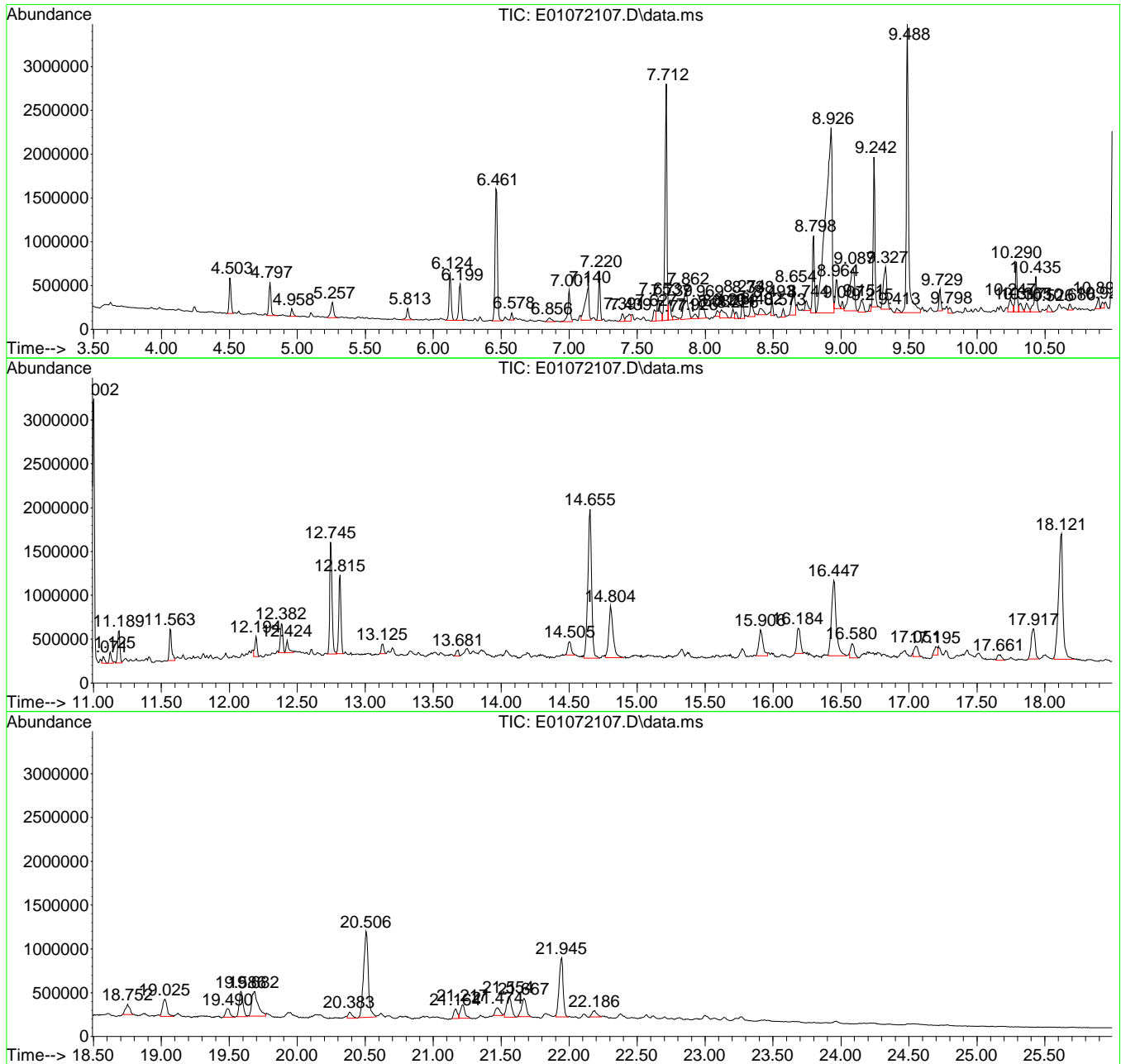
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Butanone	5.086	466.1	ng/ml	419199	2	6.466	1798690	2000.0
.alpha.-Methyls...	6.199	467.0	ng/ml	420022	2	6.466	1798690	2000.0
Hexanoic acid, ...	7.167	1249.8	ng/ml	1691960	3	7.712	2707480	2000.0
Benzothiazole	7.985	358.9	ng/ml	485839	3	7.712	2707480	2000.0
Phthalic anhydride	8.477	200.2	ng/ml	271035	3	7.712	2707480	2000.0
(1R,2R,3S,5R)-(...	8.729	374.7	ng/ml	716659	4	9.488	3825510	2000.0
Ethanol, 2-[2-(...	9.253	329.0	ng/ml	629289	4	9.488	3825510	2000.0
Pentadecane, 2,...	10.445	645.7	ng/ml	783089	5	11.007	2425490	2000.0
Hexadecane, 2,6...	10.922	1152.7	ng/ml	1397880	5	11.007	2425490	2000.0
n-Hexadecanoic ...	11.590	1992.6	ng/ml	2416450	5	11.007	2425490	2000.0
Octadecanoic acid	12.451	1436.5	ng/ml	1742090	5	11.007	2425490	2000.0
Butyl citrate	12.820	804.0	ng/ml	975101	5	11.007	2425490	2000.0
Heptacosane	16.201	732.8	ng/ml	1097030	6	14.671	2994250	2000.0
Octacosane	17.067	456.4	ng/ml	683233	6	14.671	2994250	2000.0
Triacontane	17.928	2589.8	ng/ml	1526240	7	20.522	1178640	2000.0
Eicosane	18.773	1357.3	ng/ml	799897	7	20.522	1178640	2000.0
Heptadecane, 9-...	19.597	1980.6	ng/ml	1167210	7	20.522	1178640	2000.0
Nonadecane	20.399	742.6	ng/ml	437646	7	20.522	1178640	2000.0
Heptadecane	20.405	263.2	ng/ml	155134	7	20.522	1178640	2000.0
Tetracosane	21.175	766.5	ng/ml	451724	7	20.522	1178640	2000.0
Octadecane	21.180	271.4	ng/ml	159913	7	20.522	1178640	2000.0
Docosane, 9-butyl-	21.929	605.4	ng/ml	356752	7	20.522	1178640	2000.0
Docosane, 11-bu...	21.929	243.7	ng/ml	143607	7	20.522	1178640	2000.0
Tetracosane, 3-...	22.571	366.0	ng/ml	215680	7	20.522	1178640	2000.0

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072107.D
 Acq On : 7 Jan 2021 12:06 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-02RE1@4
 Misc : 4x, 8270E L1 Full List/Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072107.D
Acq On : 7 Jan 2021 12:06 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-02RE1@4
Misc : 4x, 8270E L1 Full List/Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 (1S)-2,6,6-Trimethylbicyclo... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.813	202.67 ng/ml	180619	1,4-Dichlorobenzene-d4 (ISTD)	6.466

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	007785-26-4	97
2	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	007785-70-8	95
3	.alpha.-Pinene	136	C10H16	000080-56-8	95
4	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	007785-70-8	94
5	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	94

Peak Number 2 .alpha.-Methylstyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.199	382.97 ng/ml	341309	1,4-Dichlorobenzene-d4 (ISTD)	6.466

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methylstyrene	118	C9H10	000098-83-9	92
2	.alpha.-Methylstyrene	118	C9H10	000098-83-9	91
3	.alpha.-Methylstyrene	118	C9H10	000098-83-9	91
4	Azetidine, 3-methyl-3-phenyl-	147	C10H13N	005961-33-1	59
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	022250-74-4	58

Peak Number 3 Hexanoic acid, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.140	535.56 ng/ml	749623	Naphthalene-d8 (ISTD)	7.712

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072107.D
Acq On : 7 Jan 2021 12:06 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-02RE1@4
Misc : 4x, 8270E L1 Full List/Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
3	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	40
4	Pentanoic acid, 2-methyl-, methy...	130	C7H14O2	002177-77-7	38
5	1,4-Dioxane	88	C4H8O2	000123-91-1	37

Peak Number 4 Benzene, 1-ethenyl-4-nitro- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.857	239.61 ng/ml	335381	Naphthalene-d8 (ISTD)	7.712

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1-ethenyl-4-nitro-	149	C8H7NO2	000100-13-0	58
2		Formamide, N-ethyl-N-phenyl-	149	C9H11NO	005461-49-4	43
3		2-Acetylbenzoic acid	164	C9H8O3	000577-56-0	43
4		1H-Benzotriazole, 5-methoxy-	149	C7H7N3O	027799-91-3	38
5		3-Hydroxy-2-pyridin-3-yl-propenal	149	C8H7NO2	1000311-61-6	38

Peak Number 5 Phenol, 3-(1-methylethyl)- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.878	204.77 ng/ml	286624	Naphthalene-d8 (ISTD)	7.712

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenol, 3-(1-methylethyl)-	136	C9H12O	000618-45-1	91
2		Phenol, 4-(1-methylethyl)-	136	C9H12O	000099-89-8	90
3		Phenol, 2-(1-methylethyl)-	136	C9H12O	000088-69-7	90
4		Phenol, 3-(1-methylethyl)-	136	C9H12O	000618-45-1	87
5		Phenol, 2-(1-methylethyl)-	136	C9H12O	000088-69-7	87

Library Search Compound Report

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 Misc : 4x, 8270E L1 Full List/Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 2,4,6-Cycloheptatrien-1-one... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.242	827.52 ng/ml	1577610	Acenaphthene-d10 (ISTD)	9.488

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 4-(...	148	C10H12O	013656-81-0	72
2	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	70
3	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	64
4	Benzene, 1-(bromomethyl)-4-methyl-	184	C8H9Br	000104-81-4	59
5	Benzene, 1,1'-(1-methyl-1,2-etha...	196	C15H16	005814-85-7	59

 Peak Number 7 3,5-Dimethylphenylacetic acid Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.327	229.06 ng/ml	436686	Acenaphthene-d10 (ISTD)	9.488

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dimethylphenylacetic acid	164	C10H12O2	042288-46-0	64
2	Acetic acid, (2,4-xylyl)-	164	C10H12O2	006331-04-0	53
3	2,5-Dimethylphenylacetic acid	164	C10H12O2	1000342-65-5	46
4	Benzene, 1-ethenyl-3-nitro-	149	C8H7NO2	000586-39-0	41
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	38

 Peak Number 8 Caffeine Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.189	210.64 ng/ml	331485	Phenanthrene-d10 (ISTD)	11.002

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072107.D
Acq On : 7 Jan 2021 12:06 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-02RE1@4
Misc : 4x, 8270E L1 Full List/Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

1	Caffeine	194	C8H10N4O2	000058-08-2	98
2	Caffeine	194	C8H10N4O2	000058-08-2	97
3	Caffeine	194	C8H10N4O2	000058-08-2	96
4	Caffeine	194	C8H10N4O2	000058-08-2	96
5	Caffeine	194	C8H10N4O2	000058-08-2	95

Peak Number 9 6,7-Dimethoxy-1,4-dihydro-2... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.382	261.25 ng/ml	411126	Phenanthrene-d10 (ISTD)	11.002

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		6,7-Dimethoxy-1,4-dihydro-2,3-qu...	222	C10H10N2O4	004784-02-5	89
2		4,5-Dimethoxy-2-ethoxy-1-(2-prop...	222	C13H18O3	1000122-71-8	81
3		1H-Purine-2,6-dione, 1,7-diethyl...	222	C10H14N4O2	054889-96-2	72
4		3,6-Dimethoxy-2-ethoxy-1-(2-prop...	222	C13H18O3	1000122-71-6	53
5		Pyrimido[4,5-b]benzothiophene-2,...	222	C10H10N2O2S	027285-09-2	53

Peak Number 10 Butyl citrate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.815	624.48 ng/ml	982732	Phenanthrene-d10 (ISTD)	11.002

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butyl citrate	360	C18H32O7	000077-94-1	87
2		Butyl citrate	360	C18H32O7	000077-94-1	64
3		Tributyl acetylcitrate	402	C20H34O8	000077-90-7	58
4		Tributyl acetylcitrate	402	C20H34O8	000077-90-7	49
5		Adipic acid, isobutyl 3-pentyl e...	272	C15H28O4	1000324-60-4	40

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072107.D
 Acq On : 7 Jan 2021 12:06 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-02RE1@4
 Misc : 4x, 8270E L1 Full List/Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 Heptadecane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.184	260.47 ng/ml	426922	Chrysene-d12 (ISTD)	14.655

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	97
2	Tetracosane	338	C24H50	000646-31-1	96
3	Hexacosane	366	C26H54	000630-01-3	91
4	Tetracosane	338	C24H50	000646-31-1	91
5	Heneicosane	296	C21H44	000629-94-7	91

 Peak Number 12 Hexacosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.912	359.20 ng/ml	581135	Perylene-d12 (ISTD)	18.121

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	93
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
3	Octacosane	394	C28H58	000630-02-4	90
4	2-methyloctacosane	408	C29H60	1000376-72-8	90
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	87

 Peak Number 13 Hexadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.586	388.98 ng/ml	454462	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.506

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
Data File : E01072107.D
Acq On : 7 Jan 2021 12:06 pm
Operator : JK/ AMS /DTH
Sample : A1A0055-02RE1@4
Misc : 4x, 8270E L1 Full List/Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

1	Hexadecane	226	C16H34	000544-76-3	93
2	Tetracosane	338	C24H50	000646-31-1	91
3	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Octacosane	394	C28H58	000630-02-4	91

Peak Number 14 Lup-20(29)-en-3-one Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.945	722.25 ng/ml	843843	Dibenz(a,h)Anthrcene-d14 (ISTD)	20.506

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Lup-20(29)-en-3-one	424	C30H48O	001617-70-5	95
2		D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	90
3		6,10-Dimethyl-3-(1-methylethylid...	206	C15H26	069239-71-0	64
4		Lup-20(29)-en-3-one	424	C30H48O	001617-70-5	64
5		Guaia-9,11-diene	204	C15H24	1000374-19-8	49

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2021-01\1A07025\TICs\
 Data File : E01072107.D
 Acq On : 7 Jan 2021 12:06 pm
 Operator : JK/ AMS /DTH
 Sample : A1A0055-02RE1@4
 Misc : 4x, 8270E L1 Full List/Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R3.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard---			
					#	RT	Resp	Conc
(1S)-2,6,6-Trim...	5.813	202.7	ng/ml	180619	1	6.466	1782410	2000.0
.alpha.-Methyls...	6.199	383.0	ng/ml	341309	1	6.466	1782410	2000.0
Hexanoic acid, ...	7.140	535.6	ng/ml	749623	2	7.712	2799420	2000.0
Benzene, 1-ethe...	7.857	239.6	ng/ml	335381	2	7.712	2799420	2000.0
Phenol, 3-(1-me...	7.878	204.8	ng/ml	286624	2	7.712	2799420	2000.0
2,4,6-Cyclohept...	9.242	827.5	ng/ml	1577610	3	9.488	3812880	2000.0
3,5-Dimethylphe...	9.327	229.1	ng/ml	436686	3	9.488	3812880	2000.0
Caffeine	11.189	210.6	ng/ml	331485	4	11.002	3147370	2000.0
6,7-Dimethoxy-1...	12.382	261.3	ng/ml	411126	4	11.002	3147370	2000.0
Butyl citrate	12.815	624.5	ng/ml	982732	4	11.002	3147370	2000.0
Heptadecane	16.184	260.5	ng/ml	426922	5	14.655	3278060	2000.0
Hexacosane	17.912	359.2	ng/ml	581135	6	18.121	3235710	2000.0
Hexadecane	19.586	389.0	ng/ml	454462	7	20.506	2336710	2000.0
Lup-20(29)-en-3...	21.945	722.3	ng/ml	843843	7	20.506	2336710	2000.0



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, April 28, 2021

Jennie Morgan
Rogue Valley Sewer Services
138 W Vilas Rd
Central Point, OR 97502

RE: A1C0364 - Alameda Post Fire 2 - Alameda Post Fire

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1C0364, which was received by the laboratory on 3/9/2021 at 11:51:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: apatton@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 0.6 degC Cooler #2 1.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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[Handwritten signature of Amy Patton]

Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W. Valley View	A1C0364-01	Water	03/05/21 17:45	03/09/21 11:51
Northridge Terrace	A1C0364-02	Water	03/05/21 16:40	03/09/21 11:51
Trip Blank	A1C0364-03	Water	03/05/21 00:00	03/09/21 11:51

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Amy Patton For Kurt Johnson, Senior Chemist



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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL CASE NARRATIVE

Work Order: A1C0364

Amended Report Revision #1

This report supersedes all previous reports.

MRL Report and Tentatively Identified Compound Report

In order to record all analyte detections, this report has been amended to include compounds at the Method Detection Limit, versus the Reporting Limit. In addition, the following clarification is provided regarding the Tentatively Identified Compound (TIC) Report.

Tentatively Identified Compounds

In addition to the standard analyte list of over 70 SVOCs eluting from 126 degrees C to 545 degrees C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. According to EPA protocol, only compounds from the library search with qualifiers above 85 are considered probable matches. The tentatively identified compound (TIC) report provides estimated concentrations not based on instrument calibration of the specific compound. Estimated concentrations require correction for dilution factors, prep factors and moisture content when applicable.

n-Hexadecanoic acid and Octadecanoic acid were detected at similar concentrations in both the method blank and the project samples and therefore detections in the project samples are likely due to blank contamination. The TIC data for the project samples and method blank are included in the TIC report. This report is not complete without an attached Tentatively Identified Compound (TIC) report.

Subcontract

This report is not complete without an attached subcontract laboratory report from ALS - Burlington Laboratory for Polybrominated compound analyses and an attached subcontract laboratory report from APPL, Inc. Laboratory for PFAS and Dioxin/Furan analyses.

Amy Patton
Forensic Project Manager
04/28/2021

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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 503-718-2323
 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)			Matrix: Water		Batch: 1030479			
Diesel	1100	104	208	ug/L	1	03/12/21 22:06	NWTPH-Dx	F-13
Oil	ND	208	417	ug/L	1	03/12/21 22:06	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>03/12/21 22:06</i>	<i>NWTPH-Dx</i>
Northridge Terrace (A1C0364-02)			Matrix: Water		Batch: 1030479			
Diesel	333	135	270	ug/L	1	03/12/21 22:28	NWTPH-Dx	F-13, F-15
Oil	929	270	541	ug/L	1	03/12/21 22:28	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>03/12/21 22:28</i>	<i>NWTPH-Dx</i>

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Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030575		
Diesel	ND	104	208	ug/L	1	03/16/21 03:17	NWTPH-Dx/SG	
Oil	260	208	417	ug/L	1	03/16/21 03:17	NWTPH-Dx/SG	J
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>03/16/21 03:17</i>	<i>NWTPH-Dx/SG</i>
Northridge Terrace (A1C0364-02)				Matrix: Water		Batch: 1030575		
Diesel	ND	135	270	ug/L	1	03/16/21 03:39	NWTPH-Dx/SG	
Oil	524	270	541	ug/L	1	03/16/21 03:39	NWTPH-Dx/SG	J
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>03/16/21 03:39</i>	<i>NWTPH-Dx/SG</i>

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ANALYTICAL REPORT

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Apex Laboratories, LLC

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 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01RE1)			Matrix: Water		Batch: 1030535		V-01	
Gasoline Range Organics	ND	50.0	100	ug/L	1	03/15/21 14:44	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>03/15/21 14:44</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>	<i>50-150 %</i>	<i>1</i>	<i>03/15/21 14:44</i>	<i>NWTPH-Gx (MS)</i>	
Northridge Terrace (A1C0364-02RE1)			Matrix: Water		Batch: 1030535		V-01	
Gasoline Range Organics	ND	50.0	100	ug/L	1	03/15/21 15:11	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 97 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>03/15/21 15:11</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>	<i>50-150 %</i>	<i>1</i>	<i>03/15/21 15:11</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01RE1)				Matrix: Water		Batch: 1030535		V-01
Acetone	ND	20.0	20.0	ug/L	1	03/15/21 14:44	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/15/21 14:44	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/15/21 14:44	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/15/21 14:44	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/15/21 14:44	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	03/15/21 14:44	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01RE1)				Matrix: Water		Batch: 1030535		V-01
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/15/21 14:44	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/15/21 14:44	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/15/21 14:44	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/15/21 14:44	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Naphthalene	ND	2.00	4.00	ug/L	1	03/15/21 14:44	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/15/21 14:44	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/15/21 14:44	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>	

W. Valley View (A1C0364-01RE2)				Matrix: Water		Batch: 1030611		V-01
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/16/21 16:10	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/16/21 16:10</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/16/21 16:10</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/16/21 16:10</i>	<i>EPA 8260D</i>	

Northridge Terrace (A1C0364-02RE1)				Matrix: Water		Batch: 1030535		V-01
Acetone	ND	20.0	20.0	ug/L	1	03/15/21 15:11	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Northridge Terrace (A1C0364-02RE1)				Matrix: Water		Batch: 1030535		V-01
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/15/21 15:11	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/15/21 15:11	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/15/21 15:11	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/15/21 15:11	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	03/15/21 15:11	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Northridge Terrace (A1C0364-02RE1)				Matrix: Water		Batch: 1030535		V-01
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/15/21 15:11	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/15/21 15:11	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/15/21 15:11	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/15/21 15:11	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Naphthalene	ND	2.00	4.00	ug/L	1	03/15/21 15:11	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/15/21 15:11	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/15/21 15:11	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8260D)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01RE2)				Matrix: Water		Batch: 1030611		V-01
Tentatively Identified Compounds	ND	5.0	5.0	ug/L	1	03/16/21 16:10	8260D TICs	
Northridge Terrace (A1C0364-02RE1)				Matrix: Water		Batch: 1030535		V-01
Tentatively Identified Compounds	ND	5.0	5.0	ug/L	1	03/15/21 15:11	8260D TICs	

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Oxygenates by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01RE1)			Matrix: Water		Batch: 1030535		V-01	
Ethanol	ND	62.5	125	ug/L	1	03/15/21 14:44	EPA 8260D	
tert-Butanol (TBA)	ND	50.0	100	ug/L	1	03/15/21 14:44	EPA 8260D	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
tert-Amyl methyl ether (TAME)	ND	0.500	0.500	ug/L	1	03/15/21 14:44	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>03/15/21 14:44</i>	<i>EPA 8260D</i>

Northridge Terrace (A1C0364-02RE1)			Matrix: Water		Batch: 1030535		V-01	
Ethanol	ND	62.5	125	ug/L	1	03/15/21 15:11	EPA 8260D	
tert-Butanol (TBA)	ND	50.0	100	ug/L	1	03/15/21 15:11	EPA 8260D	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
tert-Amyl methyl ether (TAME)	ND	0.500	0.500	ug/L	1	03/15/21 15:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>80-120 %</i>		<i>1</i>	<i>03/15/21 15:11</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030361		
Acenaphthene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Acenaphthylene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Anthracene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Benz(a)anthracene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Benzo(a)pyrene	ND	0.0588	0.118	ug/L	4	03/10/21 14:21	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0588	0.118	ug/L	4	03/10/21 14:21	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0588	0.118	ug/L	4	03/10/21 14:21	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Chrysene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Fluoranthene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Fluorene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
1-Methylnaphthalene	ND	0.0784	0.157	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Methylnaphthalene	ND	0.0784	0.157	ug/L	4	03/10/21 14:21	EPA 8270E	
Naphthalene	ND	0.0784	0.157	ug/L	4	03/10/21 14:21	EPA 8270E	
Phenanthrene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Pyrene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Carbazole	ND	0.0588	0.118	ug/L	4	03/10/21 14:21	EPA 8270E	
Dibenzofuran	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Chlorophenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.784	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4-Dichlorophenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4-Dimethylphenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4-Dinitrophenol	ND	1.96	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.980	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Methylphenol	0.124	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	J
3+4-Methylphenol(s)	0.311	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Nitrophenol	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Nitrophenol	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
Pentachlorophenol (PCP)	0.571	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	J
Phenol	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
2,3,4,6-Tetrachlorophenol	0.207	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	J
2,3,5,6-Tetrachlorophenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
Nitrobenzene	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
Butyl benzyl phthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)			Matrix: Water			Batch: 1030361		
Diethylphthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
Dimethylphthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
Di-n-butylphthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
Di-n-octyl phthalate	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.275	0.275	ug/L	4	03/10/21 14:21	EPA 8270E	R-02
N-Nitrosodiphenylamine	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.196	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Hexachlorobenzene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
Hexachlorobutadiene	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
Hexachloroethane	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Chloronaphthalene	ND	0.0392	0.0784	ug/L	4	03/10/21 14:21	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Aniline	ND	0.196	0.392	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Chloroaniline	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
2-Nitroaniline	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
3-Nitroaniline	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
4-Nitroaniline	ND	0.784	1.57	ug/L	4	03/10/21 14:21	EPA 8270E	
2,4-Dinitrotoluene	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
2,6-Dinitrotoluene	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
Benzoic acid	7.02	4.90	9.80	ug/L	4	03/10/21 14:21	EPA 8270E	J
Benzyl alcohol	ND	1.18	1.18	ug/L	4	03/10/21 14:21	EPA 8270E	R-02
Isophorone	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.980	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
3,3'-Dichlorobenzidine	ND	1.96	3.92	ug/L	4	03/10/21 14:21	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.980	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
1,3-Dinitrobenzene	ND	0.980	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
1,4-Dinitrobenzene	ND	0.980	1.96	ug/L	4	03/10/21 14:21	EPA 8270E	
Pyridine	ND	0.392	0.784	ug/L	4	03/10/21 14:21	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0980	0.196	ug/L	4	03/10/21 14:21	EPA 8270E	

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)			Matrix: Water			Batch: 1030361		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 44 %</i>		<i>Limits: 44-120 %</i>		<i>4 03/10/21 14:21</i>		<i>EPA 8270E</i>
<i>2-Fluorobiphenyl (Surr)</i>			<i>38 %</i>	<i>44-120 %</i>	<i>4</i>	<i>03/10/21 14:21</i>	<i>EPA 8270E</i>	<i>S-06</i>
<i>Phenol-d6 (Surr)</i>			<i>17 %</i>	<i>10-133 %</i>	<i>4</i>	<i>03/10/21 14:21</i>	<i>EPA 8270E</i>	
<i>p-Terphenyl-d14 (Surr)</i>			<i>54 %</i>	<i>50-134 %</i>	<i>4</i>	<i>03/10/21 14:21</i>	<i>EPA 8270E</i>	
<i>2-Fluorophenol (Surr)</i>			<i>23 %</i>	<i>19-120 %</i>	<i>4</i>	<i>03/10/21 14:21</i>	<i>EPA 8270E</i>	
<i>2,4,6-Tribromophenol (Surr)</i>			<i>95 %</i>	<i>43-140 %</i>	<i>4</i>	<i>03/10/21 14:21</i>	<i>EPA 8270E</i>	
Northridge Terrace (A1C0364-02)			Matrix: Water			Batch: 1030361		
Acenaphthene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Acenaphthylene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Anthracene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Benz(a)anthracene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Benzo(a)pyrene	ND	0.0561	0.112	ug/L	4	03/10/21 14:57	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0561	0.112	ug/L	4	03/10/21 14:57	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0561	0.112	ug/L	4	03/10/21 14:57	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Chrysene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Fluoranthene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Fluorene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
1-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/10/21 14:57	EPA 8270E	
2-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/10/21 14:57	EPA 8270E	
Naphthalene	ND	0.0748	0.150	ug/L	4	03/10/21 14:57	EPA 8270E	
Phenanthrene	0.0420	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	J
Pyrene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Carbazole	ND	0.0561	0.112	ug/L	4	03/10/21 14:57	EPA 8270E	
Dibenzofuran	ND	0.112	0.112	ug/L	4	03/10/21 14:57	EPA 8270E	R-02
2-Chlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.748	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4-Dichlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4-Dimethylphenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4-Dinitrophenol	ND	1.87	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.935	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
2-Methylphenol	0.122	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	J
3+4-Methylphenol(s)	0.218	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
2-Nitrophenol	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Nitrophenol	ND	0.748	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Northridge Terrace (A1C0364-02)			Matrix: Water		Batch: 1030361			
Pentachlorophenol (PCP)	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
Phenol	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
Nitrobenzene	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
Bis(2-ethylhexyl)phthalate	0.866	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	J
Butyl benzyl phthalate	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
Diethylphthalate	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
Dimethylphthalate	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
Di-n-butylphthalate	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
Di-n-octyl phthalate	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.299	0.299	ug/L	4	03/10/21 14:57	EPA 8270E	R-02
N-Nitrosodiphenylamine	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	1.42	1.42	ug/L	4	03/10/21 14:57	EPA 8270E	R-02
2,2'-Oxybis(1-Chloropropane)	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Hexachlorobenzene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
Hexachlorobutadiene	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
Hexachloroethane	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
2-Chloronaphthalene	ND	0.0374	0.0748	ug/L	4	03/10/21 14:57	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Aniline	ND	0.187	0.374	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Chloroaniline	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
2-Nitroaniline	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
3-Nitroaniline	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
4-Nitroaniline	ND	0.748	1.50	ug/L	4	03/10/21 14:57	EPA 8270E	
2,4-Dinitrotoluene	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
2,6-Dinitrotoluene	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
Benzoic acid	5.57	4.67	9.35	ug/L	4	03/10/21 14:57	EPA 8270E	J
Isophorone	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.935	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
3,3'-Dichlorobenzidine	ND	1.87	3.74	ug/L	4	03/10/21 14:57	EPA 8270E	Q-52

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Northridge Terrace (A1C0364-02)			Matrix: Water			Batch: 1030361		
1,2-Dinitrobenzene	ND	0.935	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
1,3-Dinitrobenzene	ND	0.935	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
1,4-Dinitrobenzene	ND	0.935	1.87	ug/L	4	03/10/21 14:57	EPA 8270E	
Pyridine	ND	0.374	0.748	ug/L	4	03/10/21 14:57	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	03/10/21 14:57	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 63 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>53 %</i>		<i>44-120 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
<i>Phenol-d6 (Surr)</i>		<i>21 %</i>		<i>10-133 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>74 %</i>		<i>50-134 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
<i>2-Fluorophenol (Surr)</i>		<i>31 %</i>		<i>19-120 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>101 %</i>		<i>43-140 %</i>		<i>4</i>	<i>03/10/21 14:57</i>	<i>EPA 8270E</i>
Northridge Terrace (A1C0364-02RE1)			Matrix: Water			Batch: 1030361		
Benzyl alcohol	0.649	0.374	0.748	ug/L	4	03/11/21 14:12	EPA 8270E	J

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01) Matrix: Water								
Batch: 1030777								
Aluminum	1.81	0.0250	0.0500	mg/L	1	03/23/21 04:00	EPA 200.8	
Antimony	0.00153	0.000500	0.00100	mg/L	1	03/23/21 04:00	EPA 200.8	
Arsenic	0.00193	0.000500	0.00100	mg/L	1	03/23/21 04:00	EPA 200.8	
Beryllium	ND	0.000100	0.000200	mg/L	1	03/23/21 04:00	EPA 200.8	
Cadmium	ND	0.000100	0.000200	mg/L	1	03/23/21 04:00	EPA 200.8	
Calcium	17.4	0.300	0.600	mg/L	1	03/23/21 04:00	EPA 200.8	
Chromium	0.00377	0.000500	0.00100	mg/L	1	03/23/21 04:00	EPA 200.8	
Copper	0.0215	0.00100	0.00200	mg/L	1	03/23/21 04:00	EPA 200.8	
Iron	2.17	0.0250	0.0500	mg/L	1	03/23/21 04:00	EPA 200.8	
Lead	0.00638	0.000100	0.000200	mg/L	1	03/23/21 04:00	EPA 200.8	
Magnesium	6.37	0.0500	0.100	mg/L	1	03/23/21 04:00	EPA 200.8	
Mercury	ND	0.0000400	0.0000800	mg/L	1	03/23/21 04:00	EPA 200.8	
Nickel	0.00432	0.00100	0.00200	mg/L	1	03/23/21 04:00	EPA 200.8	
Selenium	ND	0.000500	0.00100	mg/L	1	03/23/21 04:00	EPA 200.8	
Silver	ND	0.000100	0.000200	mg/L	1	03/23/21 04:00	EPA 200.8	
Thallium	ND	0.000100	0.000200	mg/L	1	03/23/21 04:00	EPA 200.8	
Zinc	0.0818	0.00200	0.00400	mg/L	1	03/23/21 04:00	EPA 200.8	

Northridge Terrace (A1C0364-02) Matrix: Water								
Batch: 1030777								
Aluminum	1.25	0.0250	0.0500	mg/L	1	03/23/21 04:05	EPA 200.8	
Antimony	0.00193	0.000500	0.00100	mg/L	1	03/23/21 04:05	EPA 200.8	
Arsenic	0.00240	0.000500	0.00100	mg/L	1	03/23/21 04:05	EPA 200.8	
Beryllium	ND	0.000100	0.000200	mg/L	1	03/23/21 04:05	EPA 200.8	
Cadmium	0.000141	0.000100	0.000200	mg/L	1	03/23/21 04:05	EPA 200.8	J
Calcium	10.1	0.300	0.600	mg/L	1	03/23/21 04:05	EPA 200.8	
Chromium	0.00361	0.000500	0.00100	mg/L	1	03/23/21 04:05	EPA 200.8	
Copper	0.0269	0.00100	0.00200	mg/L	1	03/23/21 04:05	EPA 200.8	
Iron	1.64	0.0250	0.0500	mg/L	1	03/23/21 04:05	EPA 200.8	
Lead	0.0144	0.000100	0.000200	mg/L	1	03/23/21 04:05	EPA 200.8	
Magnesium	1.33	0.0500	0.100	mg/L	1	03/23/21 04:05	EPA 200.8	
Mercury	ND	0.0000400	0.0000800	mg/L	1	03/23/21 04:05	EPA 200.8	
Nickel	0.00306	0.00100	0.00200	mg/L	1	03/23/21 04:05	EPA 200.8	
Selenium	ND	0.000500	0.00100	mg/L	1	03/23/21 04:05	EPA 200.8	
Silver	ND	0.000100	0.000200	mg/L	1	03/23/21 04:05	EPA 200.8	
Thallium	ND	0.000100	0.000200	mg/L	1	03/23/21 04:05	EPA 200.8	
Zinc	0.0765	0.00200	0.00400	mg/L	1	03/23/21 04:05	EPA 200.8	

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Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	--

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
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ANALYTICAL SAMPLE RESULTS

Total Hardness (Calculated) by SM 2340B (200.8)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		(Calculated)		
Hardness	69.8	---	1.91	mg CaCO3/L	1	03/23/21 04:00	SM 2340B	
Northridge Terrace (A1C0364-02)				Matrix: Water		(Calculated)		
Hardness	30.6	---	1.91	mg CaCO3/L	1	03/23/21 04:05	SM 2340B	

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ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

ANALYTICAL SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030429		
Total Kjeldahl Nitrogen (TKN)	1.35	0.100	0.200	mg/L	1	03/11/21 14:36	EPA 351.2	
Northridge Terrace (A1C0364-02)				Matrix: Water		Batch: 1030429		
Total Kjeldahl Nitrogen (TKN)	1.21	0.100	0.200	mg/L	1	03/11/21 14:37	EPA 351.2	

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ANALYTICAL SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030548		
Total Organic Carbon	14.0	1.00	1.00	mg/L	1	03/15/21 21:46	SM 5310 C	
Northridge Terrace (A1C0364-02)				Matrix: Water		Batch: 1030548		
Total Organic Carbon	17.9	1.00	1.00	mg/L	1	03/15/21 22:16	SM 5310 C	

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ANALYTICAL SAMPLE RESULTS

Total Phosphorous by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030601		
Phosphorus	0.289	0.0500	0.100	mg/L	1	03/16/21 17:26	SM 4500-P E	
Northridge Terrace (A1C0364-02)				Matrix: Water		Batch: 1030601		
Phosphorus	0.406	0.0500	0.100	mg/L	1	03/16/21 17:26	SM 4500-P E	

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ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water				
Batch: 1030332								
pH	7.31			pH Units	1	03/09/21 15:17	SM 4500-H+ B	H-12
pH Temperature (deg C)	21.5			pH Units	1	03/09/21 15:17	SM 4500-H+ B	H-12
Northridge Terrace (A1C0364-02)				Matrix: Water				
Batch: 1030332								
pH	8.47			pH Units	1	03/09/21 15:20	SM 4500-H+ B	H-12
pH Temperature (deg C)	21.1			pH Units	1	03/09/21 15:20	SM 4500-H+ B	H-12

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ANALYTICAL SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
W. Valley View (A1C0364-01)				Matrix: Water		Batch: 1030472		
Total Suspended Solids	57.6	4.00	4.00	mg/L	1	03/12/21 13:27	D3977-97 (07)	
Northridge Terrace (A1C0364-02)				Matrix: Water		Batch: 1030472		
Total Suspended Solids	36.4	3.79	3.79	mg/L	1	03/12/21 13:27	D3977-97 (07)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 1030479 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (1030479-BLK1)		Prepared: 03/12/21 06:51 Analyzed: 03/12/21 21:01										
NWTPH-Dx												
Diesel	ND	90.9	182	ug/L	1	---	---	---	---	---	---	---
Oil	ND	182	364	ug/L	1	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 111 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (1030479-BS1)		Prepared: 03/12/21 06:51 Analyzed: 03/12/21 21:22										
NWTPH-Dx												
Diesel	1210	100	200	ug/L	1	1250	---	97	59 - 115%	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 113 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS Dup (1030479-BSD1)		Prepared: 03/12/21 06:51 Analyzed: 03/12/21 21:44 Q-19										
NWTPH-Dx												
Diesel	1260	100	200	ug/L	1	1250	---	101	59 - 115%	4	30%	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 112 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030575 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel + Acid						Water						
Blank (1030575-BLK1)		Prepared: 03/12/21 06:51 Analyzed: 03/16/21 02:12										
<u>NWTPH-Dx/SG</u>												
Diesel	ND	90.9	182	ug/L	1	---	---	---	---	---	---	
Oil	ND	182	364	ug/L	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 112 % Limits: 50-150 % Dilution: 1x</i>										
LCS (1030575-BS1)		Prepared: 03/12/21 06:51 Analyzed: 03/16/21 02:34										
<u>NWTPH-Dx/SG</u>												
Diesel	1230	100	200	ug/L	1	1250	---	98	59 - 115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 116 % Limits: 50-150 % Dilution: 1x</i>										
LCS Dup (1030575-BSD1)		Prepared: 03/12/21 06:51 Analyzed: 03/16/21 02:55 Q-19										
<u>NWTPH-Dx/SG</u>												
Diesel	1260	100	200	ug/L	1	1250	---	101	59 - 115%	2	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 116 % Limits: 50-150 % Dilution: 1x</i>										

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
Blank (1030531-BLK1)		Prepared: 03/14/21 08:30 Analyzed: 03/14/21 13:24										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (1030531-BS2)						Prepared: 03/14/21 08:30 Analyzed: 03/14/21 11:36						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	447	50.0	100	ug/L	1	500	---	89	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)		Prepared: 03/15/21 08:00 Analyzed: 03/15/21 11:34										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (1030535-BS2)						Prepared: 03/15/21 08:00 Analyzed: 03/15/21 09:46						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	426	50.0	100	ug/L	1	500	---	85	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
Blank (1030531-BLK1)		Prepared: 03/14/21 08:30			Analyzed: 03/14/21 13:24							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
Blank (1030531-BLK1)	Prepared: 03/14/21 08:30					Analyzed: 03/14/21 13:24						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
Blank (1030531-BLK1)		Prepared: 03/14/21 08:30		Analyzed: 03/14/21 13:24								
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (1030531-BS1)		Prepared: 03/14/21 08:30		Analyzed: 03/14/21 11:04								
EPA 8260D												
Acetone	38.1	10.0	20.0	ug/L	1	40.0	---	95	80 - 120%	---	---	
Acrylonitrile	19.9	1.00	2.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
Benzene	18.7	0.100	0.200	ug/L	1	20.0	---	94	80 - 120%	---	---	
Bromobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
Bromochloromethane	22.1	0.500	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
Bromodichloromethane	21.6	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Bromoform	25.5	0.500	1.00	ug/L	1	20.0	---	128	80 - 120%	---	---	Q-56
Bromomethane	19.2	5.00	5.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
2-Butanone (MEK)	37.6	5.00	10.0	ug/L	1	40.0	---	94	80 - 120%	---	---	
n-Butylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
sec-Butylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
tert-Butylbenzene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
Carbon disulfide	18.7	5.00	10.0	ug/L	1	20.0	---	94	80 - 120%	---	---	
Carbon tetrachloride	21.3	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Chlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Chloroethane	20.1	5.00	5.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
Chloroform	20.3	0.500	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Chloromethane	15.2	5.00	5.00	ug/L	1	20.0	---	76	80 - 120%	---	---	Q-55
2-Chlorotoluene	20.7	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
4-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Dibromochloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	21.2	2.50	5.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	20.9	0.250	0.500	ug/L	1	20.0	---	104	80 - 120%	---	---	
Dibromomethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,2-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,3-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,4-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Dichlorodifluoromethane	25.3	0.500	1.00	ug/L	1	20.0	---	127	80 - 120%	---	---	Q-56
1,1-Dichloroethane	18.1	0.200	0.400	ug/L	1	20.0	---	90	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
LCS (1030531-BS1)	Prepared: 03/14/21 08:30 Analyzed: 03/14/21 11:04											
1,2-Dichloroethane (EDC)	19.9	0.200	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,1-Dichloroethene	18.7	0.200	0.400	ug/L	1	20.0	---	93	80 - 120%	---	---	
cis-1,2-Dichloroethene	19.5	0.200	0.400	ug/L	1	20.0	---	98	80 - 120%	---	---	
trans-1,2-Dichloroethene	19.4	0.200	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,2-Dichloropropane	18.7	0.250	0.500	ug/L	1	20.0	---	93	80 - 120%	---	---	
1,3-Dichloropropane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
2,2-Dichloropropane	17.8	0.500	1.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,1-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
cis-1,3-Dichloropropene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
trans-1,3-Dichloropropene	19.1	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Ethylbenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
Hexachlorobutadiene	22.5	2.50	5.00	ug/L	1	20.0	---	113	80 - 120%	---	---	
2-Hexanone	40.2	5.00	10.0	ug/L	1	40.0	---	101	80 - 120%	---	---	
Isopropylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
4-Isopropyltoluene	22.5	0.500	1.00	ug/L	1	20.0	---	113	80 - 120%	---	---	
Methylene chloride	20.0	5.00	10.0	ug/L	1	20.0	---	100	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.6	5.00	10.0	ug/L	1	40.0	---	99	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	18.2	0.500	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
Naphthalene	19.9	2.00	4.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
n-Propylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80 - 120%	---	---	
Styrene	21.9	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	21.3	0.200	0.400	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
Tetrachloroethene (PCE)	20.7	0.200	0.400	ug/L	1	20.0	---	103	80 - 120%	---	---	
Toluene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
1,2,3-Trichlorobenzene	22.6	1.00	2.00	ug/L	1	20.0	---	113	80 - 120%	---	---	
1,2,4-Trichlorobenzene	24.7	1.00	2.00	ug/L	1	20.0	---	124	80 - 120%	---	---	Q-56
1,1,1-Trichloroethane	19.7	0.200	0.400	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,1,2-Trichloroethane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80 - 120%	---	---	
Trichloroethene (TCE)	20.4	0.200	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
Trichlorofluoromethane	22.1	1.00	2.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
1,2,3-Trichloropropane	20.1	0.500	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,2,4-Trimethylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
1,3,5-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
LCS (1030531-BS1)		Prepared: 03/14/21 08:30			Analyzed: 03/14/21 11:04							
Vinyl chloride	20.5	0.200	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
m,p-Xylene	40.9	0.500	1.00	ug/L	1	40.0	---	102	80 - 120%	---	---	
o-Xylene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)		Prepared: 03/15/21 08:00			Analyzed: 03/15/21 11:34							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	---

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)	Prepared: 03/15/21 08:00					Analyzed: 03/15/21 11:34						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)		Prepared: 03/15/21 08:00		Analyzed: 03/15/21 11:34								
<i>Surr: Toluene-d8 (Surr)</i>		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
<i>4-Bromofluorobenzene (Surr)</i>		97 %		80-120 %		"						
LCS (1030535-BS1)		Prepared: 03/15/21 08:00		Analyzed: 03/15/21 09:15								
EPA 8260D												
Acetone	34.7	10.0	20.0	ug/L	1	40.0	---	87	80 - 120%	---	---	
Acrylonitrile	19.1	1.00	2.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Benzene	18.4	0.100	0.200	ug/L	1	20.0	---	92	80 - 120%	---	---	
Bromobenzene	20.5	0.250	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
Bromochloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
Bromodichloromethane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
Bromoform	25.3	0.500	1.00	ug/L	1	20.0	---	127	80 - 120%	---	---	Q-56
Bromomethane	25.1	5.00	5.00	ug/L	1	20.0	---	126	80 - 120%	---	---	Q-56
2-Butanone (MEK)	35.6	5.00	10.0	ug/L	1	40.0	---	89	80 - 120%	---	---	
n-Butylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
sec-Butylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
tert-Butylbenzene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Carbon disulfide	18.5	5.00	10.0	ug/L	1	20.0	---	92	80 - 120%	---	---	
Carbon tetrachloride	21.0	0.500	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
Chlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
Chloroethane	20.1	5.00	5.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Chloroform	20.0	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
Chloromethane	15.8	5.00	5.00	ug/L	1	20.0	---	79	80 - 120%	---	---	Q-55
2-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
4-Chlorotoluene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Dibromochloromethane	22.1	0.500	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	19.4	2.50	5.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Dibromomethane	20.3	0.500	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,2-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,3-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,4-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
Dichlorodifluoromethane	23.8	0.500	1.00	ug/L	1	20.0	---	119	80 - 120%	---	---	
1,1-Dichloroethane	17.8	0.200	0.400	ug/L	1	20.0	---	89	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
LCS (1030535-BS1)			Prepared: 03/15/21 08:00		Analyzed: 03/15/21 09:15							
1,2-Dichloroethane (EDC)	19.7	0.200	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,1-Dichloroethene	18.3	0.200	0.400	ug/L	1	20.0	---	92	80 - 120%	---	---	
cis-1,2-Dichloroethene	19.0	0.200	0.400	ug/L	1	20.0	---	95	80 - 120%	---	---	
trans-1,2-Dichloroethene	18.9	0.200	0.400	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,2-Dichloropropane	18.4	0.250	0.500	ug/L	1	20.0	---	92	80 - 120%	---	---	
1,3-Dichloropropane	19.9	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
2,2-Dichloropropane	16.1	0.500	1.00	ug/L	1	20.0	---	81	80 - 120%	---	---	
1,1-Dichloropropene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
cis-1,3-Dichloropropene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
trans-1,3-Dichloropropene	18.1	0.500	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
Ethylbenzene	19.7	0.250	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Hexachlorobutadiene	21.4	2.50	5.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
2-Hexanone	37.0	5.00	10.0	ug/L	1	40.0	---	92	80 - 120%	---	---	
Isopropylbenzene	21.3	0.500	1.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
4-Isopropyltoluene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Methylene chloride	20.4	5.00	10.0	ug/L	1	20.0	---	102	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	37.5	5.00	10.0	ug/L	1	40.0	---	94	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	17.4	0.500	1.00	ug/L	1	20.0	---	87	80 - 120%	---	---	
Naphthalene	17.4	2.00	4.00	ug/L	1	20.0	---	87	80 - 120%	---	---	
n-Propylbenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Styrene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	21.0	0.200	0.400	ug/L	1	20.0	---	105	80 - 120%	---	---	
1,1,1,2,2-Tetrachloroethane	19.4	0.250	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Tetrachloroethene (PCE)	20.9	0.200	0.400	ug/L	1	20.0	---	104	80 - 120%	---	---	
Toluene	18.5	0.500	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
1,2,3-Trichlorobenzene	20.5	1.00	2.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,2,4-Trichlorobenzene	22.3	1.00	2.00	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,1,1-Trichloroethane	19.3	0.200	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,1,2-Trichloroethane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80 - 120%	---	---	
Trichloroethene (TCE)	20.7	0.200	0.400	ug/L	1	20.0	---	104	80 - 120%	---	---	
Trichlorofluoromethane	22.3	1.00	2.00	ug/L	1	20.0	---	111	80 - 120%	---	---	
1,2,3-Trichloropropane	19.9	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,2,4-Trimethylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
1,3,5-Trimethylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
LCS (1030535-BS1)		Prepared: 03/15/21 08:00		Analyzed: 03/15/21 09:15								
Vinyl chloride	20.4	0.200	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
m,p-Xylene	40.3	0.500	1.00	ug/L	1	40.0	---	101	80 - 120%	---	---	
o-Xylene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
Blank (1030611-BLK1)		Prepared: 03/16/21 12:00 Analyzed: 03/16/21 14:48										
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
Blank (1030611-BLK1)	Prepared: 03/16/21 12:00					Analyzed: 03/16/21 14:48						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	1.00	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
Blank (1030611-BLK1)		Prepared: 03/16/21 12:00		Analyzed: 03/16/21 14:48								
<i>Surr: Toluene-d8 (Surr)</i>		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
<i>4-Bromofluorobenzene (Surr)</i>		100 %		80-120 %		"						
LCS (1030611-BS1)		Prepared: 03/16/21 12:00		Analyzed: 03/16/21 13:53								
EPA 8260D												
Acetone	33.5	10.0	20.0	ug/L	1	40.0	---	84	80 - 120%	---	---	
Acrylonitrile	18.3	1.00	2.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Benzene	17.6	0.100	0.200	ug/L	1	20.0	---	88	80 - 120%	---	---	
Bromobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Bromochloromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Bromodichloromethane	20.7	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
Bromoform	25.6	0.500	1.00	ug/L	1	20.0	---	128	80 - 120%	---	---	Q-56
Bromomethane	27.3	5.00	5.00	ug/L	1	20.0	---	137	80 - 120%	---	---	Q-56
2-Butanone (MEK)	34.9	5.00	10.0	ug/L	1	40.0	---	87	80 - 120%	---	---	
n-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
sec-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
tert-Butylbenzene	18.3	0.500	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
Carbon disulfide	17.8	5.00	10.0	ug/L	1	20.0	---	89	80 - 120%	---	---	
Carbon tetrachloride	21.2	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Chlorobenzene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Chloroethane	19.7	5.00	5.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
Chloroform	19.0	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Chloromethane	14.2	5.00	5.00	ug/L	1	20.0	---	71	80 - 120%	---	---	Q-55
2-Chlorotoluene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
4-Chlorotoluene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Dibromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	19.3	0.250	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
Dibromomethane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,2-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,4-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Dichlorodifluoromethane	23.0	0.500	1.00	ug/L	1	20.0	---	115	80 - 120%	---	---	
1,1-Dichloroethane	16.9	0.200	0.400	ug/L	1	20.0	---	85	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd
Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
LCS (1030611-BS1)	Prepared: 03/16/21 12:00					Analyzed: 03/16/21 13:53						
1,2-Dichloroethane (EDC)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80 - 120%	---	---	
1,1-Dichloroethene	17.7	0.200	0.400	ug/L	1	20.0	---	88	80 - 120%	---	---	
cis-1,2-Dichloroethene	18.1	0.200	0.400	ug/L	1	20.0	---	90	80 - 120%	---	---	
trans-1,2-Dichloroethene	18.3	0.200	0.400	ug/L	1	20.0	---	92	80 - 120%	---	---	
1,2-Dichloropropane	17.8	0.250	0.500	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,3-Dichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
2,2-Dichloropropane	15.7	1.00	1.00	ug/L	1	20.0	---	79	80 - 120%	---	---	Q-55
1,1-Dichloropropene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
cis-1,3-Dichloropropene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
trans-1,3-Dichloropropene	17.6	0.500	1.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
Ethylbenzene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Hexachlorobutadiene	21.3	2.50	5.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
2-Hexanone	36.0	5.00	10.0	ug/L	1	40.0	---	90	80 - 120%	---	---	
Isopropylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
4-Isopropyltoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Methylene chloride	20.1	5.00	10.0	ug/L	1	20.0	---	100	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	36.0	5.00	10.0	ug/L	1	40.0	---	90	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	16.7	0.500	1.00	ug/L	1	20.0	---	83	80 - 120%	---	---	
Naphthalene	16.8	2.00	4.00	ug/L	1	20.0	---	84	80 - 120%	---	---	
n-Propylbenzene	19.5	0.250	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Styrene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	20.9	0.200	0.400	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	19.0	0.250	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Tetrachloroethene (PCE)	19.9	0.200	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
Toluene	17.7	0.500	1.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,2,3-Trichlorobenzene	19.1	1.00	2.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,2,4-Trichlorobenzene	20.7	1.00	2.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,1,1-Trichloroethane	18.4	0.200	0.400	ug/L	1	20.0	---	92	80 - 120%	---	---	
1,1,2-Trichloroethane	20.3	0.250	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Trichloroethene (TCE)	20.0	0.200	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
Trichlorofluoromethane	22.2	1.00	2.00	ug/L	1	20.0	---	111	80 - 120%	---	---	
1,2,3-Trichloropropane	19.2	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2,4-Trimethylbenzene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,3,5-Trimethylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
LCS (1030611-BS1)		Prepared: 03/16/21 12:00			Analyzed: 03/16/21 13:53							
Vinyl chloride	19.4	0.200	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
m,p-Xylene	39.2	0.500	1.00	ug/L	1	40.0	---	98	80 - 120%	---	---	
o-Xylene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8260D)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)		Prepared: 03/15/21 08:00 Analyzed: 03/15/21 11:34										
8260D TICs												
Tentatively Identified Compounds	ND	5.0	5.0	ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Tentatively Identified Compounds by GC/MS (8260D)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030611 - EPA 5030B						Water						
Blank (1030611-BLK1)		Prepared: 03/16/21 12:00 Analyzed: 03/16/21 14:48										
8260D TICs												
Ethane, 1,1-difluoro-	2.7			ug/L	1	---	---	---	---	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Oxygenates by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030531 - EPA 5030B						Water						
Blank (1030531-BLK1)		Prepared: 03/14/21 08:30 Analyzed: 03/14/21 13:24										
EPA 8260D												
Ethanol	ND	62.5	125	ug/L	1	---	---	---	---	---	---	---
tert-Butanol (TBA)	ND	50.0	100	ug/L	1	---	---	---	---	---	---	---
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
tert-Amyl methyl ether (TAME)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (1030531-BS1)						Prepared: 03/14/21 08:30 Analyzed: 03/14/21 11:04						
EPA 8260D												
Ethanol	1090	62.5	125	ug/L	1	1250	---	87	80 - 120%	---	---	---
tert-Butanol (TBA)	1170	50.0	100	ug/L	1	1250	---	94	80 - 120%	---	---	---
Diisopropyl ether (DIPE)	4.29	0.250	0.500	ug/L	1	5.00	---	86	80 - 120%	---	---	---
Ethyl-tert-butyl ether (ETBE)	4.38	0.250	0.500	ug/L	1	5.00	---	88	80 - 120%	---	---	---
tert-Amyl methyl ether (TAME)	4.17	0.250	0.500	ug/L	1	5.00	---	83	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

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503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Oxygenates by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030535 - EPA 5030B						Water						
Blank (1030535-BLK1)		Prepared: 03/15/21 08:00		Analyzed: 03/15/21 11:34								
EPA 8260D												
Ethanol	ND	62.5	125	ug/L	1	---	---	---	---	---	---	
tert-Butanol (TBA)	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Diisopropyl ether (DIPE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Ethyl-tert-butyl ether (ETBE)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
tert-Amyl methyl ether (TAME)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (1030535-BS1)						Prepared: 03/15/21 08:00 Analyzed: 03/15/21 09:15						
EPA 8260D												
Ethanol	1030	62.5	125	ug/L	1	1250	---	83	80 - 120%	---	---	
tert-Butanol (TBA)	1070	50.0	100	ug/L	1	1250	---	85	80 - 120%	---	---	
Diisopropyl ether (DIPE)	4.14	0.250	0.500	ug/L	1	5.00	---	83	80 - 120%	---	---	
Ethyl-tert-butyl ether (ETBE)	4.03	0.250	0.500	ug/L	1	5.00	---	81	80 - 120%	---	---	
tert-Amyl methyl ether (TAME)	3.91	0.500	0.500	ug/L	1	5.00	---	78	80 - 120%	---	---	Q-55
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

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ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1030361-BLK1)		Prepared: 03/10/21 07:16			Analyzed: 03/10/21 12:33							
EPA 8270E												
Acenaphthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Acenaphthylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Benz(a)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Chrysene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Fluoranthene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Fluorene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
1-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	---
2-Methylnaphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	---
Phenanthrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Pyrene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
Carbazole	ND	0.0136	0.0273	ug/L	1	---	---	---	---	---	---	---
Dibenzofuran	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	---
2-Chlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	---
4-Chloro-3-methylphenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	---
2,4-Dichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	---
2,4-Dimethylphenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	---
2,4-Dinitrophenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	---
4,6-Dinitro-2-methylphenol	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	---
2-Methylphenol	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	---
3+4-Methylphenol(s)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	---
2-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	---
4-Nitrophenol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	---
Pentachlorophenol (PCP)	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	---
Phenol	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	---
2,3,4,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	---

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services	Project: Alameda Post Fire 2	
138 W Vilas Rd	Project Number: Alameda Post Fire	Report ID:
Central Point, OR 97502	Project Manager: Jennie Morgan	A1C0364 - 04 28 21 1715

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1030361-BLK1)	Prepared: 03/10/21 07:16					Analyzed: 03/10/21 12:33						
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	0.00909	0.0182	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Aniline	ND	0.0455	0.0909	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	0.182	0.364	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	1.14	2.27	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits RPD	RPD Limit	Notes	
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
Blank (1030361-BLK1)		Prepared: 03/10/21 07:16			Analyzed: 03/10/21 12:33							
Azobenzene (1,2-DPH)	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1	---	---	---	---	---	Q-52	
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	0.0909	0.182	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>75 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>34 %</i>		<i>10-133 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>103 %</i>		<i>50-134 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>47 %</i>		<i>19-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>96 %</i>		<i>43-140 %</i>		<i>"</i>						

LCS (1030361-BS1)		Prepared: 03/10/21 07:16			Analyzed: 03/10/21 13:09							
EPA 8270E												
Acenaphthene	3.22	0.0200	0.0400	ug/L	2	4.00	---	80	47 - 122%	---	---	
Acenaphthylene	3.45	0.0200	0.0400	ug/L	2	4.00	---	86	41 - 130%	---	---	
Anthracene	3.67	0.0200	0.0400	ug/L	2	4.00	---	92	57 - 123%	---	---	
Benz(a)anthracene	3.68	0.0200	0.0400	ug/L	2	4.00	---	92	58 - 125%	---	---	
Benzo(a)pyrene	3.95	0.0300	0.0600	ug/L	2	4.00	---	99	54 - 128%	---	---	
Benzo(b)fluoranthene	3.90	0.0300	0.0600	ug/L	2	4.00	---	97	53 - 131%	---	---	
Benzo(k)fluoranthene	3.80	0.0300	0.0600	ug/L	2	4.00	---	95	57 - 129%	---	---	
Benzo(g,h,i)perylene	4.07	0.0200	0.0400	ug/L	2	4.00	---	102	50 - 134%	---	---	
Chrysene	3.52	0.0200	0.0400	ug/L	2	4.00	---	88	59 - 123%	---	---	
Dibenz(a,h)anthracene	3.58	0.0200	0.0400	ug/L	2	4.00	---	90	51 - 134%	---	---	
Fluoranthene	3.76	0.0200	0.0400	ug/L	2	4.00	---	94	57 - 128%	---	---	
Fluorene	3.38	0.0200	0.0400	ug/L	2	4.00	---	85	52 - 124%	---	---	
Indeno(1,2,3-cd)pyrene	3.62	0.0200	0.0400	ug/L	2	4.00	---	91	52 - 134%	---	---	
1-Methylnaphthalene	2.98	0.0400	0.0800	ug/L	2	4.00	---	74	41 - 120%	---	---	
2-Methylnaphthalene	3.05	0.0400	0.0800	ug/L	2	4.00	---	76	40 - 121%	---	---	

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services	Project: Alameda Post Fire 2	
138 W Vilas Rd	Project Number: Alameda Post Fire	Report ID:
Central Point, OR 97502	Project Manager: Jennie Morgan	A1C0364 - 04 28 21 1715

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (1030361-BS1)	Prepared: 03/10/21 07:16					Analyzed: 03/10/21 13:09						
Naphthalene	2.82	0.0400	0.0800	ug/L	2	4.00	---	71	40 - 121%	---	---	
Phenanthrene	3.45	0.0200	0.0400	ug/L	2	4.00	---	86	59 - 120%	---	---	
Pyrene	3.66	0.0200	0.0400	ug/L	2	4.00	---	91	57 - 126%	---	---	
Carbazole	4.01	0.0300	0.0600	ug/L	2	4.00	---	100	60 - 122%	---	---	
Dibenzofuran	3.24	0.0200	0.0400	ug/L	2	4.00	---	81	53 - 120%	---	---	
2-Chlorophenol	3.30	0.100	0.200	ug/L	2	4.00	---	82	38 - 120%	---	---	
4-Chloro-3-methylphenol	3.67	0.200	0.400	ug/L	2	4.00	---	92	52 - 120%	---	---	
2,4-Dichlorophenol	3.42	0.100	0.200	ug/L	2	4.00	---	86	47 - 121%	---	---	
2,4-Dimethylphenol	3.66	0.100	0.200	ug/L	2	4.00	---	91	31 - 124%	---	---	
2,4-Dinitrophenol	3.54	0.500	1.00	ug/L	2	4.00	---	89	23 - 143%	---	---	Q-31
4,6-Dinitro-2-methylphenol	3.27	0.500	1.00	ug/L	2	4.00	---	82	44 - 137%	---	---	
2-Methylphenol	3.32	0.0500	0.100	ug/L	2	4.00	---	83	30 - 120%	---	---	
3+4-Methylphenol(s)	3.11	0.0500	0.100	ug/L	2	4.00	---	78	29 - 120%	---	---	
2-Nitrophenol	3.19	0.200	0.400	ug/L	2	4.00	---	80	47 - 123%	---	---	
4-Nitrophenol	1.67	0.200	0.400	ug/L	2	4.00	---	42	10 - 120%	---	---	
Pentachlorophenol (PCP)	3.57	0.200	0.400	ug/L	2	4.00	---	89	35 - 138%	---	---	
Phenol	1.70	0.400	0.800	ug/L	2	4.00	---	42	10 - 120%	---	---	
2,3,4,6-Tetrachlorophenol	3.49	0.100	0.200	ug/L	2	4.00	---	87	50 - 128%	---	---	
2,3,5,6-Tetrachlorophenol	3.76	0.100	0.200	ug/L	2	4.00	---	94	50 - 121%	---	---	
2,4,5-Trichlorophenol	3.56	0.100	0.200	ug/L	2	4.00	---	89	53 - 123%	---	---	
Nitrobenzene	3.58	0.200	0.400	ug/L	2	4.00	---	89	45 - 121%	---	---	
2,4,6-Trichlorophenol	3.57	0.100	0.200	ug/L	2	4.00	---	89	50 - 125%	---	---	
Bis(2-ethylhexyl)phthalate	3.98	0.400	0.800	ug/L	2	4.00	---	99	55 - 135%	---	---	
Butyl benzyl phthalate	4.37	0.400	0.800	ug/L	2	4.00	---	109	53 - 134%	---	---	
Diethylphthalate	3.72	0.400	0.800	ug/L	2	4.00	---	93	56 - 125%	---	---	
Dimethylphthalate	3.71	0.400	0.800	ug/L	2	4.00	---	93	45 - 127%	---	---	
Di-n-butylphthalate	4.20	0.400	0.800	ug/L	2	4.00	---	105	59 - 127%	---	---	
Di-n-octyl phthalate	4.58	0.400	0.800	ug/L	2	4.00	---	115	51 - 140%	---	---	
N-Nitrosodimethylamine	2.26	0.0500	0.100	ug/L	2	4.00	---	56	10 - 120%	---	---	
N-Nitroso-di-n-propylamine	4.10	0.0500	0.100	ug/L	2	4.00	---	103	49 - 120%	---	---	Q-41
N-Nitrosodiphenylamine	3.81	0.0500	0.100	ug/L	2	4.00	---	95	51 - 123%	---	---	
Bis(2-Chloroethoxy) methane	3.40	0.0500	0.100	ug/L	2	4.00	---	85	48 - 120%	---	---	
Bis(2-Chloroethyl) ether	3.33	0.0500	0.100	ug/L	2	4.00	---	83	43 - 120%	---	---	
2,2'-Oxybis(1-Chloropropane)	3.45	0.0500	0.100	ug/L	2	4.00	---	86	37 - 130%	---	---	

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
LCS (1030361-BS1)	Prepared: 03/10/21 07:16					Analyzed: 03/10/21 13:09						
Hexachlorobenzene	3.24	0.0200	0.0400	ug/L	2	4.00	---	81	53 - 125%	---	---	
Hexachlorobutadiene	2.39	0.0500	0.100	ug/L	2	4.00	---	60	22 - 124%	---	---	
Hexachlorocyclopentadiene	2.42	0.100	0.200	ug/L	2	4.00	---	61	10 - 127%	---	---	
Hexachloroethane	2.77	0.0500	0.100	ug/L	2	4.00	---	69	21 - 120%	---	---	
2-Chloronaphthalene	2.96	0.0200	0.0400	ug/L	2	4.00	---	74	40 - 120%	---	---	
1,2,4-Trichlorobenzene	2.58	0.0500	0.100	ug/L	2	4.00	---	65	29 - 120%	---	---	
4-Bromophenyl phenyl ether	3.47	0.0500	0.100	ug/L	2	4.00	---	87	55 - 124%	---	---	
4-Chlorophenyl phenyl ether	3.32	0.0500	0.100	ug/L	2	4.00	---	83	53 - 121%	---	---	
Aniline	3.24	0.100	0.200	ug/L	2	4.00	---	81	10 - 120%	---	---	
4-Chloroaniline	3.40	0.0500	0.100	ug/L	2	4.00	---	85	33 - 120%	---	---	
2-Nitroaniline	3.71	0.400	0.800	ug/L	2	4.00	---	93	55 - 127%	---	---	
3-Nitroaniline	3.48	0.400	0.800	ug/L	2	4.00	---	87	41 - 128%	---	---	
4-Nitroaniline	3.26	0.400	0.800	ug/L	2	4.00	---	81	54 - 128%	---	---	
2,4-Dinitrotoluene	3.60	0.200	0.400	ug/L	2	4.00	---	90	57 - 128%	---	---	
2,6-Dinitrotoluene	3.30	0.200	0.400	ug/L	2	4.00	---	82	57 - 124%	---	---	
Benzoic acid	4.59	2.50	2.50	ug/L	2	8.00	---	57	10 - 120%	---	---	
Benzyl alcohol	3.61	0.200	0.400	ug/L	2	4.00	---	90	31 - 120%	---	---	Q-41
Isophorone	3.87	0.0500	0.100	ug/L	2	4.00	---	97	42 - 124%	---	---	
Azobenzene (1,2-DPH)	3.77	0.0500	0.100	ug/L	2	4.00	---	94	61 - 120%	---	---	
Bis(2-Ethylhexyl) adipate	4.25	0.500	1.00	ug/L	2	4.00	---	106	57 - 136%	---	---	
3,3'-Dichlorobenzidine	9.55	1.00	2.00	ug/L	2	8.00	---	119	27 - 129%	---	---	
1,2-Dinitrobenzene	3.42	0.500	1.00	ug/L	2	4.00	---	86	59 - 120%	---	---	
1,3-Dinitrobenzene	3.45	0.500	1.00	ug/L	2	4.00	---	86	49 - 128%	---	---	
1,4-Dinitrobenzene	3.36	0.500	1.00	ug/L	2	4.00	---	84	72 - 130%	---	---	
Pyridine	1.89	0.200	0.400	ug/L	2	4.00	---	47	10 - 120%	---	---	
1,2-Dichlorobenzene	2.74	0.0500	0.100	ug/L	2	4.00	---	69	32 - 120%	---	---	
1,3-Dichlorobenzene	2.61	0.0500	0.100	ug/L	2	4.00	---	65	28 - 120%	---	---	
1,4-Dichlorobenzene	2.68	0.0500	0.100	ug/L	2	4.00	---	67	29 - 120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	Recovery: 93 %	Limits: 44-120 %	Dilution: 2x
2-Fluorobiphenyl (Surr)	75 %	44-120 %	"
Phenol-d6 (Surr)	38 %	10-133 %	"
p-Terphenyl-d14 (Surr)	102 %	50-134 %	"
2-Fluorophenol (Surr)	54 %	19-120 %	"
2,4,6-Tribromophenol (Surr)	103 %	43-140 %	"

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water							
LCS Dup (1030361-BSD1)		Prepared: 03/10/21 07:16 Analyzed: 03/10/21 13:45						Q-19					
EPA 8270E													
Acenaphthene	3.28	0.0200	0.0400	ug/L	2	4.00	---	82	47 - 122%	2	30%		
Acenaphthylene	3.56	0.0200	0.0400	ug/L	2	4.00	---	89	41 - 130%	3	30%		
Anthracene	3.68	0.0200	0.0400	ug/L	2	4.00	---	92	57 - 123%	0.3	30%		
Benz(a)anthracene	3.69	0.0200	0.0400	ug/L	2	4.00	---	92	58 - 125%	0.5	30%		
Benzo(a)pyrene	3.91	0.0300	0.0600	ug/L	2	4.00	---	98	54 - 128%	1	30%		
Benzo(b)fluoranthene	3.85	0.0300	0.0600	ug/L	2	4.00	---	96	53 - 131%	1	30%		
Benzo(k)fluoranthene	3.76	0.0300	0.0600	ug/L	2	4.00	---	94	57 - 129%	1	30%		
Benzo(g,h,i)perylene	3.96	0.0200	0.0400	ug/L	2	4.00	---	99	50 - 134%	3	30%		
Chrysene	3.50	0.0200	0.0400	ug/L	2	4.00	---	87	59 - 123%	0.6	30%		
Dibenz(a,h)anthracene	3.53	0.0200	0.0400	ug/L	2	4.00	---	88	51 - 134%	1	30%		
Fluoranthene	3.75	0.0200	0.0400	ug/L	2	4.00	---	94	57 - 128%	0.1	30%		
Fluorene	3.44	0.0200	0.0400	ug/L	2	4.00	---	86	52 - 124%	2	30%		
Indeno(1,2,3-cd)pyrene	3.63	0.0200	0.0400	ug/L	2	4.00	---	91	52 - 134%	0.1	30%		
1-Methylnaphthalene	3.01	0.0400	0.0800	ug/L	2	4.00	---	75	41 - 120%	1	30%		
2-Methylnaphthalene	3.06	0.0400	0.0800	ug/L	2	4.00	---	76	40 - 121%	0.3	30%		
Naphthalene	2.83	0.0400	0.0800	ug/L	2	4.00	---	71	40 - 121%	0.4	30%		
Phenanthrene	3.51	0.0200	0.0400	ug/L	2	4.00	---	88	59 - 120%	2	30%		
Pyrene	3.66	0.0200	0.0400	ug/L	2	4.00	---	92	57 - 126%	0.04	30%		
Carbazole	4.04	0.0300	0.0600	ug/L	2	4.00	---	101	60 - 122%	0.7	30%		
Dibenzofuran	3.31	0.0200	0.0400	ug/L	2	4.00	---	83	53 - 120%	2	30%		
2-Chlorophenol	3.23	0.100	0.200	ug/L	2	4.00	---	81	38 - 120%	2	30%		
4-Chloro-3-methylphenol	3.55	0.200	0.400	ug/L	2	4.00	---	89	52 - 120%	3	30%		
2,4-Dichlorophenol	3.40	0.100	0.200	ug/L	2	4.00	---	85	47 - 121%	0.6	30%		
2,4-Dimethylphenol	3.57	0.100	0.200	ug/L	2	4.00	---	89	31 - 124%	2	30%		
2,4-Dinitrophenol	3.50	0.500	1.00	ug/L	2	4.00	---	88	23 - 143%	1	30%	Q-31	
4,6-Dinitro-2-methylphenol	3.26	0.500	1.00	ug/L	2	4.00	---	82	44 - 137%	0.3	30%		
2-Methylphenol	3.15	0.0500	0.100	ug/L	2	4.00	---	79	30 - 120%	5	30%		
3+4-Methylphenol(s)	2.93	0.0500	0.100	ug/L	2	4.00	---	73	29 - 120%	6	30%		
2-Nitrophenol	3.28	0.200	0.400	ug/L	2	4.00	---	82	47 - 123%	3	30%		
4-Nitrophenol	1.35	0.200	0.400	ug/L	2	4.00	---	34	10 - 120%	22	30%		
Pentachlorophenol (PCP)	3.62	0.200	0.400	ug/L	2	4.00	---	90	35 - 138%	1	30%		
Phenol	1.54	0.400	0.800	ug/L	2	4.00	---	39	10 - 120%	10	30%		

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ANALYTICAL REPORT

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (1030361-BSD1)	Prepared: 03/10/21 07:16					Analyzed: 03/10/21 13:45					Q-19	
2,3,4,6-Tetrachlorophenol	3.48	0.100	0.200	ug/L	2	4.00	---	87	50 - 128%	0.3	30%	
2,3,5,6-Tetrachlorophenol	3.76	0.100	0.200	ug/L	2	4.00	---	94	50 - 121%	0.2	30%	
2,4,5-Trichlorophenol	3.54	0.100	0.200	ug/L	2	4.00	---	89	53 - 123%	0.4	30%	
Nitrobenzene	3.66	0.200	0.400	ug/L	2	4.00	---	91	45 - 121%	2	30%	
2,4,6-Trichlorophenol	3.61	0.100	0.200	ug/L	2	4.00	---	90	50 - 125%	1	30%	
Bis(2-ethylhexyl)phthalate	3.90	0.400	0.800	ug/L	2	4.00	---	97	55 - 135%	2	30%	
Butyl benzyl phthalate	4.35	0.400	0.800	ug/L	2	4.00	---	109	53 - 134%	0.4	30%	
Diethylphthalate	3.72	0.400	0.800	ug/L	2	4.00	---	93	56 - 125%	0.1	30%	
Dimethylphthalate	3.73	0.400	0.800	ug/L	2	4.00	---	93	45 - 127%	0.4	30%	
Di-n-butylphthalate	4.28	0.400	0.800	ug/L	2	4.00	---	107	59 - 127%	2	30%	
Di-n-octyl phthalate	4.60	0.400	0.800	ug/L	2	4.00	---	115	51 - 140%	0.4	30%	
N-Nitrosodimethylamine	2.09	0.0500	0.100	ug/L	2	4.00	---	52	10 - 120%	7	30%	
N-Nitroso-di-n-propylamine	4.15	0.0500	0.100	ug/L	2	4.00	---	104	49 - 120%	1	30%	Q-41
N-Nitrosodiphenylamine	3.81	0.0500	0.100	ug/L	2	4.00	---	95	51 - 123%	0.1	30%	
Bis(2-Chloroethoxy) methane	3.45	0.0500	0.100	ug/L	2	4.00	---	86	48 - 120%	2	30%	
Bis(2-Chloroethyl) ether	3.35	0.0500	0.100	ug/L	2	4.00	---	84	43 - 120%	0.6	30%	
2,2'-Oxybis(1-Chloropropane)	3.48	0.0500	0.100	ug/L	2	4.00	---	87	37 - 130%	0.9	30%	
Hexachlorobenzene	3.29	0.0200	0.0400	ug/L	2	4.00	---	82	53 - 125%	1	30%	
Hexachlorobutadiene	2.25	0.0500	0.100	ug/L	2	4.00	---	56	22 - 124%	6	30%	
Hexachlorocyclopentadiene	2.38	0.100	0.200	ug/L	2	4.00	---	59	10 - 127%	2	30%	
Hexachloroethane	2.58	0.0500	0.100	ug/L	2	4.00	---	64	21 - 120%	7	30%	
2-Chloronaphthalene	3.04	0.0200	0.0400	ug/L	2	4.00	---	76	40 - 120%	3	30%	
1,2,4-Trichlorobenzene	2.50	0.0500	0.100	ug/L	2	4.00	---	63	29 - 120%	3	30%	
4-Bromophenyl phenyl ether	3.54	0.0500	0.100	ug/L	2	4.00	---	89	55 - 124%	2	30%	
4-Chlorophenyl phenyl ether	3.36	0.0500	0.100	ug/L	2	4.00	---	84	53 - 121%	1	30%	
Aniline	3.17	0.100	0.200	ug/L	2	4.00	---	79	10 - 120%	2	30%	
4-Chloroaniline	3.41	0.0500	0.100	ug/L	2	4.00	---	85	33 - 120%	0.4	30%	
2-Nitroaniline	3.75	0.400	0.800	ug/L	2	4.00	---	94	55 - 127%	1	30%	
3-Nitroaniline	3.49	0.400	0.800	ug/L	2	4.00	---	87	41 - 128%	0.4	30%	
4-Nitroaniline	3.25	0.400	0.800	ug/L	2	4.00	---	81	54 - 128%	0.3	30%	
2,4-Dinitrotoluene	3.62	0.200	0.400	ug/L	2	4.00	---	91	57 - 128%	0.8	30%	
2,6-Dinitrotoluene	3.33	0.200	0.400	ug/L	2	4.00	---	83	57 - 124%	1	30%	
Benzoic acid	4.15	2.50	2.50	ug/L	2	8.00	---	52	10 - 120%	10	30%	
Benzyl alcohol	3.52	0.200	0.400	ug/L	2	4.00	---	88	31 - 120%	3	30%	Q-41

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030361 - EPA 3510C (Acid/Base Neutral)						Water						
LCS Dup (1030361-BSD1)	Prepared: 03/10/21 07:16 Analyzed: 03/10/21 13:45					Q-19						
Isophorone	3.95	0.0500	0.100	ug/L	2	4.00	---	99	42 - 124%	2	30%	
Azobenzene (1,2-DPH)	3.82	0.0500	0.100	ug/L	2	4.00	---	95	61 - 120%	1	30%	
Bis(2-Ethylhexyl) adipate	4.14	0.500	1.00	ug/L	2	4.00	---	104	57 - 136%	2	30%	
3,3'-Dichlorobenzidine	9.47	1.00	2.00	ug/L	2	8.00	---	118	27 - 129%	0.8	30%	
1,2-Dinitrobenzene	3.42	0.500	1.00	ug/L	2	4.00	---	86	59 - 120%	0.04	30%	
1,3-Dinitrobenzene	3.46	0.500	1.00	ug/L	2	4.00	---	87	49 - 128%	0.3	30%	
1,4-Dinitrobenzene	3.38	0.500	1.00	ug/L	2	4.00	---	84	72 - 130%	0.6	30%	
Pyridine	1.86	0.200	0.400	ug/L	2	4.00	---	46	10 - 120%	2	30%	
1,2-Dichlorobenzene	2.63	0.0500	0.100	ug/L	2	4.00	---	66	32 - 120%	4	30%	
1,3-Dichlorobenzene	2.47	0.0500	0.100	ug/L	2	4.00	---	62	28 - 120%	5	30%	
1,4-Dichlorobenzene	2.51	0.0500	0.100	ug/L	2	4.00	---	63	29 - 120%	6	30%	
<i>Surr: Nitrobenzene-d5 (Surr) Recovery: 95 % Limits: 44-120 % Dilution: 2x</i>												
<i>2-Fluorobiphenyl (Surr) 77 % 44-120 % "</i>												
<i>Phenol-d6 (Surr) 34 % 10-133 % "</i>												
<i>p-Terphenyl-d14 (Surr) 103 % 50-134 % "</i>												
<i>2-Fluorophenol (Surr) 46 % 19-120 % "</i>												
<i>2,4,6-Tribromophenol (Surr) 104 % 43-140 % "</i>												

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503-718-2323
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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 1030777 - EPA 3015A						Water						
Blank (1030777-BLK1)		Prepared: 03/19/21 11:10			Analyzed: 03/23/21 02:39							
EPA 200.8												
Aluminum	ND	0.0250	0.0500	mg/L	1	---	---	---	---	---	---	---
Antimony	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	---
Arsenic	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	---
Beryllium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	---
Cadmium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	---
Calcium	ND	0.300	0.600	mg/L	1	---	---	---	---	---	---	---
Chromium	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	---
Copper	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	---
Iron	ND	0.0250	0.0500	mg/L	1	---	---	---	---	---	---	---
Lead	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	---
Magnesium	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	---
Mercury	ND	0.0000400	0.0000800	mg/L	1	---	---	---	---	---	---	---
Nickel	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	---
Selenium	ND	0.000500	0.00100	mg/L	1	---	---	---	---	---	---	---
Silver	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	---
Thallium	ND	0.000100	0.000200	mg/L	1	---	---	---	---	---	---	---
Zinc	ND	0.00200	0.00400	mg/L	1	---	---	---	---	---	---	---

LCS (1030777-BS1)		Prepared: 03/19/21 11:10			Analyzed: 03/23/21 02:44							
EPA 200.8												
Aluminum	3.08	0.0250	0.0500	mg/L	1	2.78	---	111	85 - 115%	---	---	---
Antimony	0.0280	0.000500	0.00100	mg/L	1	0.0278	---	101	85 - 115%	---	---	---
Arsenic	0.0607	0.000500	0.00100	mg/L	1	0.0556	---	109	85 - 115%	---	---	---
Beryllium	0.0279	0.000100	0.000200	mg/L	1	0.0278	---	100	85 - 115%	---	---	---
Cadmium	0.0550	0.000100	0.000200	mg/L	1	0.0556	---	99	85 - 115%	---	---	---
Calcium	3.15	0.300	0.600	mg/L	1	2.78	---	113	85 - 115%	---	---	---
Chromium	0.0583	0.000500	0.00100	mg/L	1	0.0556	---	105	85 - 115%	---	---	---
Copper	0.0627	0.00100	0.00200	mg/L	1	0.0556	---	113	85 - 115%	---	---	---
Iron	3.07	0.0250	0.0500	mg/L	1	2.78	---	110	85 - 115%	---	---	---
Lead	0.0588	0.000100	0.000200	mg/L	1	0.0556	---	106	85 - 115%	---	---	---
Magnesium	3.08	0.0500	0.100	mg/L	1	2.78	---	111	85 - 115%	---	---	---
Mercury	0.00116	0.0000400	0.0000800	mg/L	1	0.00111	---	104	85 - 115%	---	---	---
Nickel	0.0614	0.00100	0.00200	mg/L	1	0.0556	---	111	85 - 115%	---	---	---

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Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030777 - EPA 3015A						Water						
LCS (1030777-BS1)		Prepared: 03/19/21 11:10			Analyzed: 03/23/21 02:44							
Selenium	0.0275	0.000500	0.00100	mg/L	1	0.0278	---	99	85 - 115%	---	---	
Silver	0.0285	0.000100	0.000200	mg/L	1	0.0278	---	103	85 - 115%	---	---	
Thallium	0.0298	0.000100	0.000200	mg/L	1	0.0278	---	107	85 - 115%	---	---	Q-41
Zinc	0.0601	0.00200	0.00400	mg/L	1	0.0556	---	108	85 - 115%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030429 - TKN block digestion						Water						
Blank (1030429-BLK1)		Prepared: 03/11/21 08:15 Analyzed: 03/11/21 14:10										
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	ND	0.100	0.200	mg/L	1	---	---	---	---	---	---	
LCS (1030429-BS1)		Prepared: 03/11/21 08:15 Analyzed: 03/11/21 14:12										
<u>EPA 351.2</u>												
Total Kjeldahl Nitrogen (TKN)	5.13	0.100	0.200	mg/L	1	5.00	---	103	90 - 110%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030548 - Method Prep: Aq						Water						
Blank (1030548-BLK1)		Prepared: 03/15/21 09:46 Analyzed: 03/15/21 16:40										
<u>SM 5310 C</u>												
Total Organic Carbon	ND	1.00	1.00	mg/L	1	---	---	---	---	---	---	
LCS (1030548-BS1)		Prepared: 03/15/21 09:46 Analyzed: 03/15/21 17:10										
<u>SM 5310 C</u>												
Total Organic Carbon	10.1	1.00	1.00	mg/L	1	10.0	---	101	90 - 114%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Phosphorous by Persulfate Digestion/Colorimetric Spectrophotometry

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030601 - Persulfate Digestion						Water						
Blank (1030601-BLK1)		Prepared: 03/16/21 10:16 Analyzed: 03/16/21 17:12										
SM 4500-PE												
Phosphorus	ND	0.0500	0.100	mg/L	1	---	---	---	---	---	---	---
LCS (1030601-BS1)		Prepared: 03/16/21 10:16 Analyzed: 03/16/21 17:13										
SM 4500-PE												
Phosphorus	0.549	0.0500	0.100	mg/L	1	0.522	---	105	85 - 115%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	% REC Limits	RPD RPD	RPD Limit	Notes
Batch 1030332 - Method Prep: Aq						Water						
Reference (1030332-SRM1)		Prepared: 03/09/21 12:06		Analyzed: 03/09/21 12:21								
<u>SM 4500-H+ B</u>												
pH	5.96			pH Units	1	6.00	99	98.33333 -	101.6667%	---	---	
pH Temperature (deg C)	21.6			pH Units	1	20.0	108	50 - 200%		---	---	
Reference (1030332-SRM2)		Prepared: 03/09/21 12:06		Analyzed: 03/09/21 12:33								
<u>SM 4500-H+ B</u>												
pH	7.93			pH Units	1	8.00	99	98.75 -	101.25%	---	---	
pH Temperature (deg C)	22.1			pH Units	1	20.0	110	50 - 200%		---	---	
Reference (1030332-SRM3)		Prepared: 03/09/21 12:06		Analyzed: 03/09/21 15:15								
<u>SM 4500-H+ B</u>												
pH	5.94			pH Units	1	6.00	99	98.33333 -	101.6667%	---	---	
pH Temperature (deg C)	21.8			pH Units	1	20.0	109	50 - 200%		---	---	
Reference (1030332-SRM4)		Prepared: 03/09/21 12:06		Analyzed: 03/09/21 15:23								
<u>SM 4500-H+ B</u>												
pH	7.90			pH Units	1	8.00	99	98.75 -	101.25%	---	---	
pH Temperature (deg C)	22.0			pH Units	1	20.0	110	50 - 200%		---	---	

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030472 - Total Suspended Solids						Water						
Blank (1030472-BLK1)		Prepared: 03/11/21 17:44 Analyzed: 03/12/21 13:27										
<u>D3977-97 (07)</u>												
Total Suspended Solids	ND	3.33	3.33	mg/L	1	---	---	---	---	---	---	
LCS (1030472-BS1)		Prepared: 03/11/21 17:44 Analyzed: 03/12/21 13:27										
<u>D3977-97 (07)</u>												
Total Suspended Solids	934			mg/L	1	951	---	98	87 - 116%	---	---	
LCS Dup (1030472-BSD1)		Prepared: 03/11/21 17:44 Analyzed: 03/12/21 13:27										
<u>D3977-97 (07)</u>												
Total Suspended Solids	945			mg/L	1	951	---	99	87 - 116%	1	6%	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030479							
A1C0364-01	Water	NWTPH-Dx	03/05/21 17:45	03/12/21 06:51	960mL/5mL	1000mL/5mL	1.04
A1C0364-02	Water	NWTPH-Dx	03/05/21 16:40	03/12/21 06:51	740mL/5mL	1000mL/5mL	1.35

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Acid/Silica Gel Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel + Acid

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030575							
A1C0364-01	Water	NWTPH-Dx/SG	03/05/21 17:45	03/12/21 06:51	960mL/5mL	1000mL/5mL	1.04
A1C0364-02	Water	NWTPH-Dx/SG	03/05/21 16:40	03/12/21 06:51	740mL/5mL	1000mL/5mL	1.35

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030535							
A1C0364-01RE1	Water	NWTPH-Gx (MS)	03/05/21 17:45	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00
A1C0364-02RE1	Water	NWTPH-Gx (MS)	03/05/21 16:40	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030535							
A1C0364-01RE1	Water	EPA 8260D	03/05/21 17:45	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00
A1C0364-02RE1	Water	EPA 8260D	03/05/21 16:40	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00
Batch: 1030611							
A1C0364-01RE2	Water	EPA 8260D	03/05/21 17:45	03/16/21 12:39	5mL/5mL	5mL/5mL	1.00

Tentatively Identified Compounds by GC/MS (8260D)

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030535							
A1C0364-02RE1	Water	8260D TICs	03/05/21 16:40	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00

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Amy Patton For Kurt Johnson, Senior Chemist



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Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: **Alameda Post Fire 2**

Project Number: **Alameda Post Fire**

Project Manager: **Jennie Morgan**

Report ID:

A1C0364 - 04 28 21 1715

SAMPLE PREPARATION INFORMATION

Tentatively Identified Compounds by GC/MS (8260D)

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030611							
A1C0364-01RE2	Water	8260D TICs	03/05/21 17:45	03/16/21 12:39	5mL/5mL	5mL/5mL	1.00

Oxygenates by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030535							
A1C0364-01RE1	Water	EPA 8260D	03/05/21 17:45	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00
A1C0364-02RE1	Water	EPA 8260D	03/05/21 16:40	03/15/21 10:54	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030361							
A1C0364-01	Water	EPA 8270E	03/05/21 17:45	03/10/21 07:16	1020mL/1mL	1000mL/1mL	0.98
A1C0364-02	Water	EPA 8270E	03/05/21 16:40	03/10/21 07:16	1070mL/1mL	1000mL/1mL	0.94
A1C0364-02RE1	Water	EPA 8270E	03/05/21 16:40	03/10/21 07:16	1070mL/1mL	1000mL/1mL	0.94

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030777							
A1C0364-01	Water	EPA 200.8	03/05/21 17:45	03/19/21 11:10	45mL/50mL	45mL/50mL	1.00
A1C0364-02	Water	EPA 200.8	03/05/21 16:40	03/19/21 11:10	45mL/50mL	45mL/50mL	1.00

Total Kjeldahl Nitrogen by Block Digestion/Gas Diffusion/Colorimetric Detection

Prep: TKN block digestion

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1030429							
A1C0364-01	Water	EPA 351.2	03/05/21 17:45	03/11/21 08:15	25mL/25mL	25mL/25mL	1.00
A1C0364-02	Water	EPA 351.2	03/05/21 16:40	03/11/21 08:15	25mL/25mL	25mL/25mL	1.00

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services

138 W Vilas Rd

Central Point, OR 97502

Project: Alameda Post Fire 2

Project Number: Alameda Post Fire

Project Manager: Jennie Morgan

Report ID:

A1C0364 - 04 28 21 1715

SAMPLE PREPARATION INFORMATION

Total Organic Carbon (Non-Purgeable) by Persulfate Oxidation by Standard Method 5310C

Prep: Method Prep: Aq

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Rows include batch 1030548 and samples A1C0364-01 and A1C0364-02.

Total Phosphorous by Persulfate Digestion/Colorimetric Spectrophotometry

Prep: Persulfate Digestion

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Rows include batch 1030601 and samples A1C0364-01 and A1C0364-02.

Conventional Chemistry Parameters

Prep: Method Prep: Aq

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Rows include batch 1030332 and samples A1C0364-01 and A1C0364-02.

Total Suspended Solids by ASTM D3977-97 (2007) - Whole Volume Filtration

Prep: Total Suspended Solids

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Rows include batch 1030472 and samples A1C0364-01 and A1C0364-02.

Apex Laboratories

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services
138 W Vilas Rd
Central Point, OR 97502

Project: Alameda Post Fire 2
Project Number: Alameda Post Fire
Project Manager: Jennie Morgan

Report ID:
A1C0364 - 04 28 21 1715

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-15 Results for diesel are estimated due to overlap from the reported oil result.
- H-12 Sample analysis was performed >15 minutes after sample collection. Consult regulator or permit manager to determine the usability of data for intended use.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-06 Surrogate recovery is outside of established control limits.
- V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist

04/28/2021

Report is complete only if includes TIC and Subcontract Reports

Page 67 of 131

Page 67 of 72



ANALYTICAL REPORT

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: Alameda Post Fire 2 Project Number: Alameda Post Fire Project Manager: Jennie Morgan	Report ID: A1C0364 - 04 28 21 1715
---	--	---

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Rogue Valley Sewer Services), Project (Alameda Post Fire 2), and Report ID (A1C0364 - 04 28 21 1715)

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Amy Patton signature

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Rogue Valley Sewer Services), Project (Alameda Post Fire 2), and Report ID (A1C0364 - 04 28 21 1715)

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Amy Patton

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ANALYTICAL REPORT

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Rogue Valley Sewer Services 138 W Vilas Rd Central Point, OR 97502	Project: <u>Alameda Post Fire 2</u> Project Number: <u>Alameda Post Fire</u> Project Manager: <u>Jennie Morgan</u>	Report ID: A1C0364 - 04 28 21 1715
---	--	--

FORENSICS CHAIN OF CUSTODY

Send Report To: **Rogue Valley Sewer Services**
Company: **Rogue Valley Sewer Services**
Address: **138 Vilas Rd, Central Point, OR 97502**
Send Invoice To: Same as above Other:
Sampled by:

Project Name: **Alameda Post-Fire Monitoring**
Project Mgr: **Jennie Morgan**
Phone: **541-664-6300**
Email: **jmorgan@rvss.us**

COC # of 1100364
Lab # A1C0364
Project #/PO#

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ASTM D7096-10	PBDE (sub to A.S-Canada)	Nitrogen TKN (EPA 351.2)	Nitrate-N	Total Phosphorus (SM4500P B/E)	Organic Lead and Manganese	Filtered Total Lead and Manganese	Forensic VOCs for Gasoline Contaminated Sites	Forensic VOCs for Gasoline Contaminated Sites (Water Soluble Fraction)	Contaminants	Forensic SVOCs for Unidentified or Specialty Contaminants + TICs	8015M TPH-Gas (C6-C10)	Total suspended Solids by D3977+SM2540D	Total Hardness (calc) by SM 2340B (200.8)	PH	TOC by Method 5310C	MWTPH-Dx and MWTPH-W 90	EPA 200.8 PP 13 Metals plus Aluminum and Iron	NOTES
1		3-5	17:45	W			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2		3-5	16:40	W			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Turnaround Time Requested (Circle):
 1 DAY 2 DAY 5 DAY Other: _____
 10 DAY (\$1k)

Sample Storage Required:
 Dispose after 30 days (No Charge)
 Long Term Evidence Storage (\$50 per quarter, up to 20 samples)

Special Instructions:
Use individual codes for Forensic VOC at gas site pkg. Want full VOC TIC Scan.

<p>RELINQUISHED BY: Signature: <u>Jennie Morgan</u> Date: <u>3/8</u> Printed Name: <u>Jennie Morgan</u> Time: <u>3:15</u> Company: <u>RVSS</u></p>	<p>RECEIVED BY: Signature: <u>[Signature]</u> Date: <u>3/12</u> Printed Name: <u>[Name]</u> Time: <u>1:57</u> Company: <u>[Company]</u></p>
---	--

Apex Laboratories

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Amy Patton

Amy Patton For Kurt Johnson, Senior Chemist



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Rogue Valley Sewer Services
138 W Vilas Rd
Central Point, OR 97502

Project: **Alameda Post Fire 2**
Project Number: **Alameda Post Fire**
Project Manager: **Jennie Morgan**

Report ID:
A1C0364 - 04 28 21 1715

APEX LABS COOLER RECEIPT FORM

Client: Rogue Valley Sewer Services Element WO#: A1C0364

Project/Project #: Alameda Post-Fire Monitoring

Delivery Info:

Date/time received: 3/9/21 @ US1 By: SO

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 3/9/21 @ US1 By: (SO)

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.6	1.8					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	gel + real	gel					
Condition:	good	good					

Cooler out of temp? (Y/N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 3/9/21 @ 1247 By: (SO)

All samples intact? Yes No Comments: _____

SO 3/9/21
Bottle labels/COCs agree? Yes No Comments: 2x TBs # 2670 received but not used on COC

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

HCl ampers Northridge Terrace received 3/4 full

Do VOA vials have visible headspace? Yes No NA

Comments HS in all VOAs

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: Tracking # 81377797 1260

Labeled by: (SO)

Witness: (SO)

Cooler Inspected by: (SO)

Apex Laboratories

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Amy Patton For Kurt Johnson, Senior Chemist

Tentatively Identified Compound (TIC) Report

8270E TICs (Forensics)

Tentatively Identified Compounds (TICs)

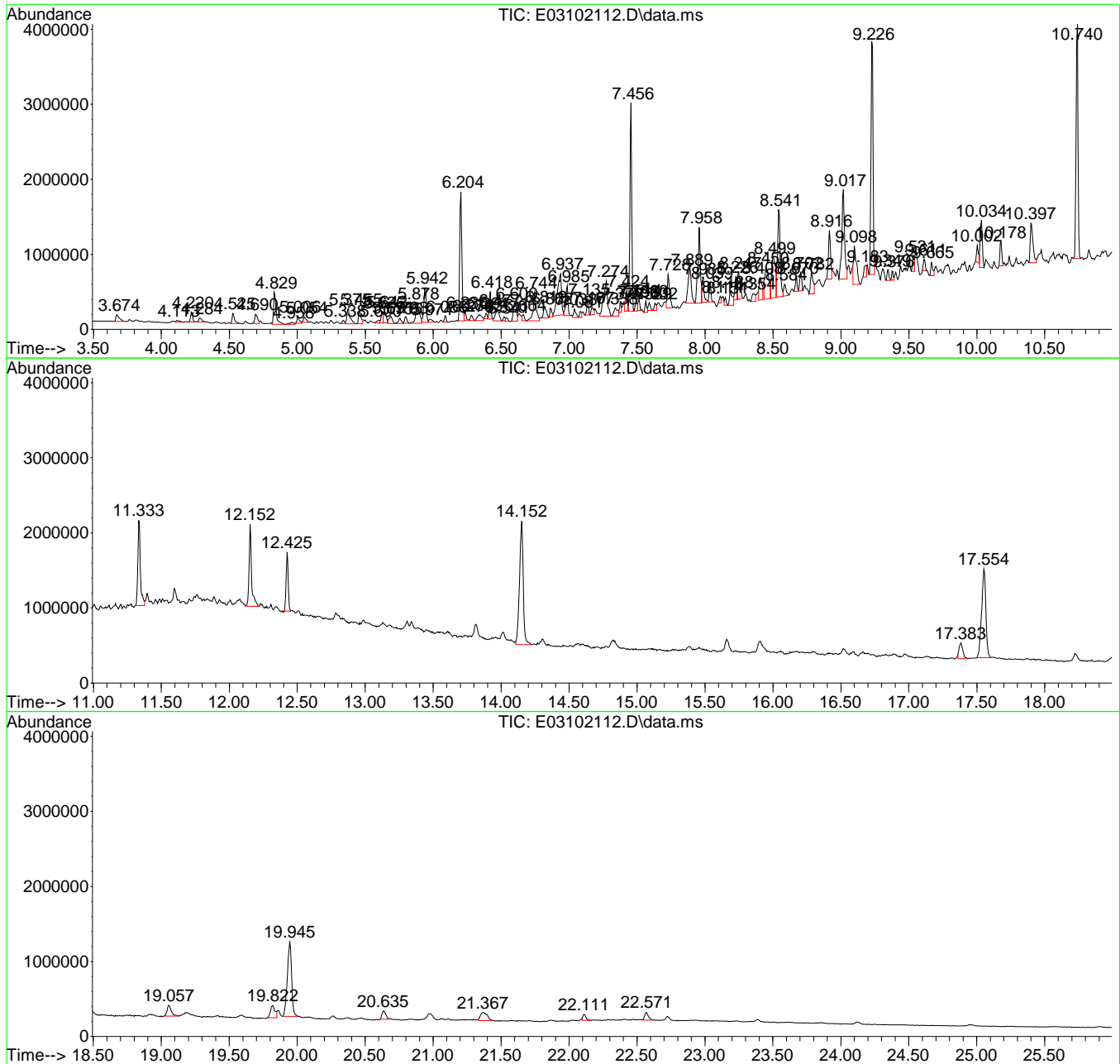
In addition to the standard analyte list of over 70 SVOCs eluting from 126°C to 545°C included in the main report, a mass-spectra search of the 70,000 compound NIST mass spectral library was performed. According to EPA protocol, only compounds from the library search with qualifiers above 85 are considered probable matches. The tentatively identified compound report provides estimated concentrations not based on instrument calibration of the specific compound. Estimated concentrations require correction for dilution factors, prep factors and moisture content when applicable.

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102112.D
 Acq On : 10 Mar 2021 2:21 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-01@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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 Peak Number 1 2-Butanone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.829	582.46 ng/ml	521472	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanone	72	C4H8O	000078-93-3	64
2	2-Butanone	72	C4H8O	000078-93-3	64
3	2-Butanone	72	C4H8O	000078-93-3	64
4	5,9-Dodecadien-2-one, 6,10-dimet...	208	C14H24O	1000132-10-9	50
5	2-Butanone	72	C4H8O	000078-93-3	42

 Peak Number 2 2-Pentenal, (E)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.375	356.41 ng/ml	319087	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentenal, (E)-	84	C5H8O	001576-87-0	53
2	Cyclopentane, 1,2,3,4,5-pentamet...	140	C10H20	1000152-79-7	42
3	Cyclopentanone, 2-ethyl-	112	C7H12O	004971-18-0	42
4	Cyclopentane-1,2-diol	102	C5H10O2	1000194-24-0	39
5	Benzene-D6	84	C6D6	001076-43-3	38

 Peak Number 3 2,5-Hexanedione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.455	266.90 ng/ml	238952	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Peak	Compound	MW	MolForm	CAS#	Qual
1	2,5-Hexanedione	114	C6H10O2	000110-13-4	90
2	2,5-Hexanedione	114	C6H10O2	000110-13-4	86
3	2,5-Hexanedione	114	C6H10O2	000110-13-4	86
4	2,5-Hexanedione	114	C6H10O2	000110-13-4	86
5	2-Hexanone, 3-methyl-	114	C7H14O	002550-21-2	28

Peak Number 4 Sulfurous acid, cyclohexylm... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.642	204.71 ng/ml	183275	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, cyclohexylmethyl...	430	C25H50O3S	1000309-22-6	64	
2	trans-2-Oxabicyclo[4.4.0]decane	140	C9H16O	059958-46-2	64	
3	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	64	
4	Sulfurous acid, cyclohexylmethyl...	402	C23H46O3S	1000309-22-4	64	
5	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64	

Peak Number 5 Hexanoic acid, 2-ethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.937	894.71 ng/ml	1148180	Naphthalene-d8 (ISTD)	7.456

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90	
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86	
3	Methyl 2,3,4-tri-O-methyl-6-deox...	220	C10H20O5	072983-16-5	50	
4	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	43	
5	Heptanoic acid, 2,6-dimethyl-, m...	172	C10H20O2	033315-72-9	38	

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 Peak Number 6 Benzothiazole Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.728	392.87 ng/ml	504163	Naphthalene-d8 (ISTD)	7.456

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzothiazole	135	C7H5NS	000095-16-9	93
2		Benzothiazole	135	C7H5NS	000095-16-9	76
3		Benzothiazole	135	C7H5NS	000095-16-9	76
4		1,2-Benzisothiazole	135	C7H5NS	000272-16-2	64
5		3-Allylbenzothiazolium bromide	255	C10H10BrNS	016407-55-9	59

 Peak Number 7 Benzoic acid, 4-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.948	209.68 ng/ml	269080	Naphthalene-d8 (ISTD)	7.456

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	93
2		Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	86
3		Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	59
4		Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	49
5		Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	42

 Peak Number 8 3-Pentenal, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.958	585.84 ng/ml	751803	Naphthalene-d8 (ISTD)	7.456

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
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1	3-Pentenal, 4-methyl-	98	C6H10O	005362-50-5	55
2	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	30
3	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	30
4	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	30
5	2-Pentene, 3-ethyl-	98	C7H14	000816-79-5	27

Peak Number 9 2-Deoxy-D-ribose, aldononit... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.258	249.24 ng/ml	319844	Naphthalene-d8 (ISTD)	7.456

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Deoxy-D-ribose, aldononitrile,...	257	C11H15NO6	1000380-43-1	59
2		D-(-)-Erythrose, aldononitrile, ...	243	C10H13NO6	1000380-42-7	36
3		L-(+)-Threose, aldononitrile, tr...	243	C10H13NO6	1000380-42-5	36
4		D-Arabinonitrile, 2,3,4,5-tetr...	315	C13H17NO8	034360-54-8	33
5		Triacetin	218	C9H14O6	000102-76-1	32

Peak Number 10 Ethanol, 2-[2-(2-butoxyetho... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.017	664.12 ng/ml	1056080	Acenaphthene-d10 (ISTD)	9.226

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
2		Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
3		Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
4		Tetraethylene glycol	194	C8H18O5	000112-60-7	72
5		Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	68

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 Peak Number 11 Phthalimide Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.098	211.37 ng/ml	336114	Acenaphthene-d10 (ISTD)	9.226

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalimide	147	C8H5NO2	000085-41-6	98
2	o-Cyanobenzoic acid	147	C8H5NO2	003839-22-3	97
3	Phthalimide	147	C8H5NO2	000085-41-6	97
4	Phthalimide	147	C8H5NO2	000085-41-6	97
5	Phthalimide	147	C8H5NO2	000085-41-6	94

 Peak Number 12 2(3H)-Benzothiazolone Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.178	205.40 ng/ml	317787	Phenanthrene-d10 (ISTD)	10.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(3H)-Benzothiazolone	151	C7H5NOS	000934-34-9	94
2	2(3H)-Benzothiazolone	151	C7H5NOS	000934-34-9	94
3	1,2-Benzisothiazol-3(2H)-one	151	C7H5NOS	002634-33-5	47
4	2(1H)-Pyridinone, 1-cyclohexyl-3...	233	C15H23NO	082754-44-7	43
5	2,6-Pyridinedicarboxylic acid, 3...	353	C16H13Cl2NO4	1000369-10-2	38

 Peak Number 13 3,6,9,12,15-Pentaoxonadec... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.397	482.86 ng/ml	747070	Phenanthrene-d10 (ISTD)	10.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Peak	Retention Time	MW	MolForm	CAS#	Qual
1	3,6,9,12,15-Pentaoxonadecan-1-ol	294	C14H30O6	001786-94-3	91
2	3,6,9,12-Tetraoxahexadecan-1-ol	250	C12H26O5	001559-34-8	91
3	3,6,9,12-Tetraoxahexadecan-1-ol	250	C12H26O5	001559-34-8	91
4	Heptaethylene glycol	326	C14H30O8	005617-32-3	80
5	2-[2-[2-[2-[2-[2-(2-Hydroxyet...	370	C16H34O9	005117-19-1	80

Peak Number 14 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.333	758.22 ng/ml	1173120	Phenanthrene-d10 (ISTD)	10.740

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99	
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98	
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96	
4	Tridecanoic acid	214	C13H26O2	000638-53-9	94	
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	91	

Peak Number 15 Octadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.152	893.67 ng/ml	1382680	Phenanthrene-d10 (ISTD)	10.740

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99	
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99	
3	Octadecanoic acid	284	C18H36O2	000057-11-4	99	
4	Octadecanoic acid	284	C18H36O2	000057-11-4	96	
5	Octadecanoic acid	284	C18H36O2	000057-11-4	76	

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Peak Number 16 Docosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.383	298.81 ng/ml	386203	Perylene-d12 (ISTD)	17.554

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	96
2	Tetracosane	338	C24H50	000646-31-1	95
3	Tricosane	324	C23H48	000638-67-5	95
4	Octadecane	254	C18H38	000593-45-3	93
5	Octacosane	394	C28H58	000630-02-4	91

Peak Number 17 Tetradecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.057	275.56 ng/ml	303111	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.945

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	94
2	Heptacosane	380	C27H56	000593-49-7	93
3	Tetracosane	338	C24H50	000646-31-1	90
4	Octacosane	394	C28H58	000630-02-4	89
5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	87

Tentatively Identified Compound (LSC) summary

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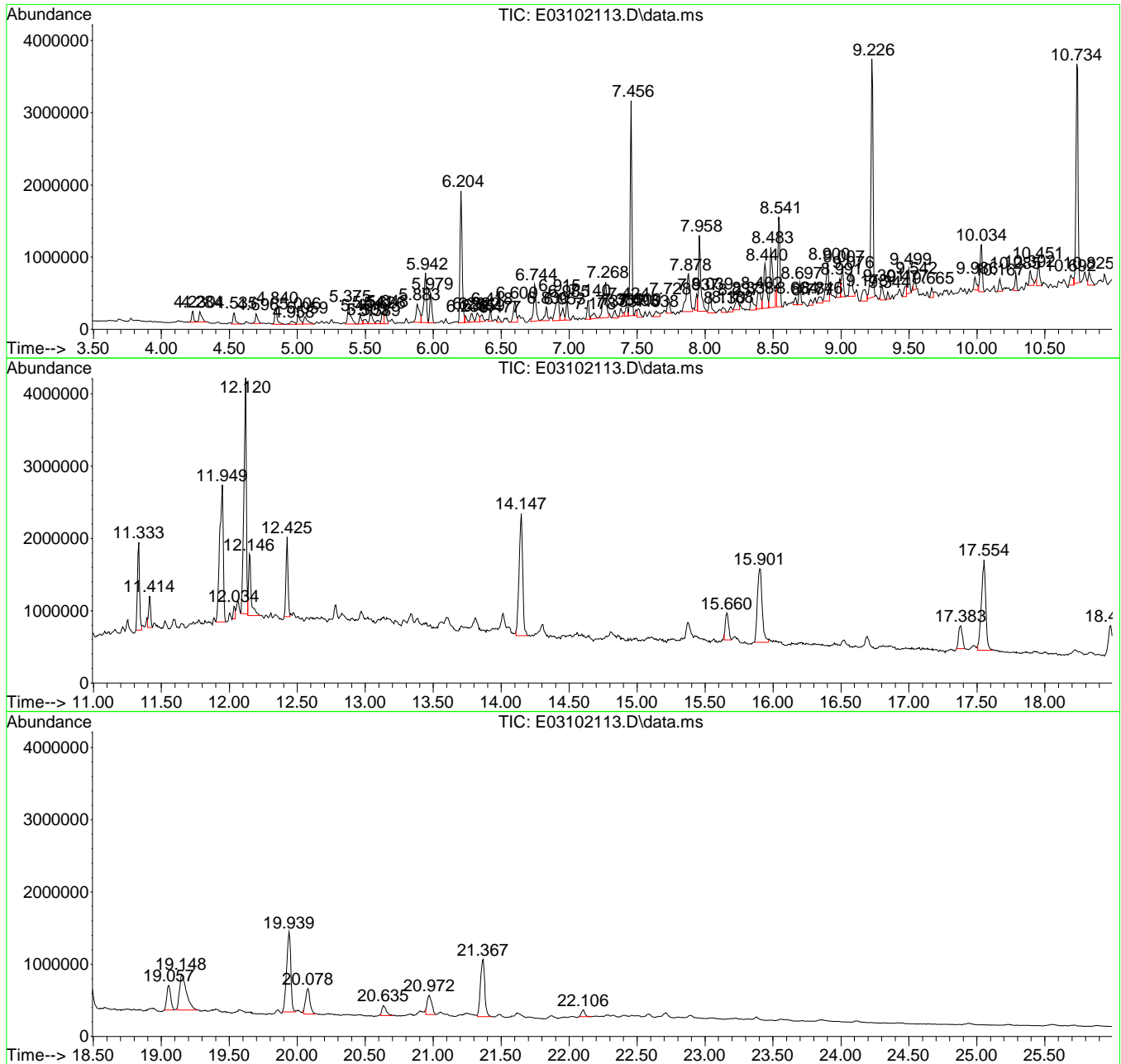
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Butanone	4.829	582.5	ng/ml	521472	1	6.204	1790570	2000.0
2-Pentenal, (E)-	5.375	356.4	ng/ml	319087	1	6.204	1790570	2000.0
2,5-Hexanedione	5.455	266.9	ng/ml	238952	1	6.204	1790570	2000.0
Sulfurous acid,...	5.642	204.7	ng/ml	183275	1	6.204	1790570	2000.0
Hexanoic acid, ...	6.937	894.7	ng/ml	1148180	2	7.456	2566590	2000.0
Benzothiazole	7.728	392.9	ng/ml	504163	2	7.456	2566590	2000.0
Benzoic acid, 4...	7.948	209.7	ng/ml	269080	2	7.456	2566590	2000.0
3-Pentenal, 4-m...	7.958	585.8	ng/ml	751803	2	7.456	2566590	2000.0
2-Deoxy-D-ribos...	8.258	249.2	ng/ml	319844	2	7.456	2566590	2000.0
Ethanol, 2-[2-(...	9.017	664.1	ng/ml	1056080	3	9.226	3180400	2000.0
Phthalimide	9.098	211.4	ng/ml	336114	3	9.226	3180400	2000.0
2(3H)-Benzothia...	10.178	205.4	ng/ml	317787	4	10.740	3094390	2000.0
3,6,9,12,15-Pen...	10.397	482.9	ng/ml	747070	4	10.740	3094390	2000.0
n-Hexadecanoic ...	11.333	758.2	ng/ml	1173120	4	10.740	3094390	2000.0
Octadecanoic acid	12.152	893.7	ng/ml	1382680	4	10.740	3094390	2000.0
Docosane	17.383	298.8	ng/ml	386203	6	17.554	2584950	2000.0
Tetradecane	19.057	275.6	ng/ml	303111	7	19.945	2199940	2000.0

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 Peak Number 1 Cyclopentane, bromo- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.535	206.60 ng/ml	190837	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, bromo-	148	C5H9Br	000137-43-9	50
2	3-Penten-1-ol, 2-methyl-	100	C6H12O	062238-37-3	39
3	Cyanamide, dimethyl-	70	C3H6N2	001467-79-4	9
4	3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	9
5	1-Pentyn-3-ol, 3-methyl-	98	C6H10O	000077-75-8	9

 Peak Number 2 5,9-Dodecadien-2-one, 6,10-... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.840	324.03 ng/ml	299308	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,9-Dodecadien-2-one, 6,10-dimet...	208	C14H24O	1000132-10-9	64
2	2-Butanone	72	C4H8O	000078-93-3	64
3	2-Butanone	72	C4H8O	000078-93-3	59
4	2-Butanone	72	C4H8O	000078-93-3	59
5	2-Butanone	72	C4H8O	000078-93-3	59

 Peak Number 3 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.541	259.98 ng/ml	240137	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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1	(1R)-2,6,6-Trimethylbicyclo[3.1.1]	136	C10H16	007785-70-8	96
2	(1R)-2,6,6-Trimethylbicyclo[3.1.1]	136	C10H16	007785-70-8	94
3	.alpha.-Pinene	136	C10H16	000080-56-8	93
4	.alpha.-Pinene	136	C10H16	000080-56-8	93
5	.alpha.-Pinene	136	C10H16	000080-56-8	93

 Peak Number 4 Cyclohexane, 1,1-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.648	222.82 ng/ml	205820	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	72	
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	72	
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	64	
4	2-Fluoropyridine	97	C5H4FN	000372-48-5	64	
5	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64	

 Peak Number 5 .beta.-Myrcene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.979	453.26 ng/ml	418675	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Myrcene	136	C10H16	000123-35-3	91	
2	Ethanone, 1-cyclopropyl-2-(4-pyr...	161	C10H11NO	006580-95-6	59	
3	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	38	
4	Pyridine, 2-propyl-	121	C8H11N	000622-39-9	38	
5	Pyridine, 2-propyl-	121	C8H11N	000622-39-9	38	

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Hexanoic acid, 2-ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.915	485.21 ng/ml	631516	Naphthalene-d8 (ISTD)	7.456

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
3	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	50
4	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	45
5	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	45

 Peak Number 7 Nonanoic acid Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.873	357.51 ng/ml	465313	Naphthalene-d8 (ISTD)	7.456

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanoic acid	158	C9H18O2	000112-05-0	68
2	Nonanoic acid	158	C9H18O2	000112-05-0	64
3	Heptanoic acid	130	C7H14O2	000111-14-8	53
4	Nonanoic acid	158	C9H18O2	000112-05-0	53
5	Hexanoic acid	116	C6H12O2	000142-62-1	47

 Peak Number 8 n-Decanoic acid Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.440	400.51 ng/ml	666569	Acenaphthene-d10 (ISTD)	9.226

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
Data File : E03102113.D
Acq On : 10 Mar 2021 2:57 pm
Operator : JK/ AMS /DTH
Sample : A1C0364-02@4
Misc : 4x, 8270E LL Full List, Forensics TICs
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak	Name	MW	MolForm	CAS#	Rank
1	n-Decanoic acid	172	C10H20O2	000334-48-5	50
2	n-Decanoic acid	172	C10H20O2	000334-48-5	43
3	2-t-Butylperoxy-2-ethylbutan-1-o...	260	C14H28O4	139727-33-6	38
4	Hexanoic acid	116	C6H12O2	000142-62-1	25
5	Octanoic acid	144	C8H16O2	000124-07-2	25

Peak Number 9 (1R,2R,3S,5R)-(-)-2,3-Pinan... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.483	785.57 ng/ml	1307420	Acenaphthene-d10 (ISTD)	9.226

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R,2R,3S,5R)-(-)-2,3-Pinane-1,2-diol	170	C10H18O2	022422-34-0	53	
2	2-Pentene, 4,4-dimethyl-, (Z)-	98	C7H14	000762-63-0	46	
3	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	46	
4	2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	43	
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	43	

Peak Number 10 Ethanol, 2-[2-(2-butoxyetho... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.007	263.42 ng/ml	438415	Acenaphthene-d10 (ISTD)	9.226

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	74	
2	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	72	
3	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	68	
4	3,6,9,12-Tetraoxahexadecan-1-ol	250	C12H26O5	001559-34-8	59	
5	Pentaethylene glycol	238	C10H22O6	004792-15-8	53	

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.333	776.31 ng/ml	1220560	Phenanthrene-d10 (ISTD)	10.734

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
4	Tridecanoic acid	214	C13H26O2	000638-53-9	92
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	87

 Peak Number 12 6,7-Dimethoxy-1,4-dihydro-2... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.948	2170.21 ng/ml	3412140	Phenanthrene-d10 (ISTD)	10.734

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6,7-Dimethoxy-1,4-dihydro-2,3-qu...	222	C10H10N2O4	004784-02-5	70
2	trans-2,5-Dimethoxy-4-ethoxy-.be...	222	C13H18O3	1000122-68-2	47
3	6,7-Dimethoxy-2,4(1H,3H)-quinazo...	222	C10H10N2O4	028888-44-0	47
4	Benzalphthalide	222	C15H10O2	000575-61-1	45
5	1H-Purine-2,6-dione, 3,7-diethyl...	222	C10H14N4O2	053432-05-6	43

 Peak Number 13 3,6-Dimethoxy-2-ethoxy-1-(2... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.120	2773.12 ng/ml	4360070	Phenanthrene-d10 (ISTD)	10.734

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

1	6,7-Dimethoxy-1,4-dihydro-2,3-qu...	222	C10H10N2O4	004784-02-5	70
2	3,6-Dimethoxy-2-ethoxy-1-(2-prop...	222	C13H18O3	1000122-71-6	64
3	trans-2,5-Dimethoxy-4-ethoxy-.be...	222	C13H18O3	1000122-68-2	53
4	Pyrimido[4,5-b]benzothiophene-2,...	222	C10H10N2O2S	027285-09-2	53
5	4,5-Dimethoxy-2-ethoxy-1-(2-prop...	222	C13H18O3	1000122-71-8	45

 Peak Number 14 Octadecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.146	657.46 ng/ml	1033700	Phenanthrene-d10 (ISTD)	10.734

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Octadecanoic acid	284	C18H36O2	000057-11-4	99
2		Octadecanoic acid	284	C18H36O2	000057-11-4	99
3		Octadecanoic acid	284	C18H36O2	000057-11-4	99
4		Octadecanoic acid	284	C18H36O2	000057-11-4	95
5		Tetradecanoic acid	228	C14H28O2	000544-63-8	86

 Peak Number 15 Heptacosane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.661	394.96 ng/ml	603990	Chrysene-d12 (ISTD)	14.147

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heptacosane	380	C27H56	000593-49-7	96
2		Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3		Heneicosane	296	C21H44	000629-94-7	91
4		Tetracosane	338	C24H50	000646-31-1	91
5		Docosane, 11-butyl-	366	C26H54	013475-76-8	91

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
Data File : E03102113.D
Acq On : 10 Mar 2021 2:57 pm
Operator : JK/ AMS /DTH
Sample : A1C0364-02@4
Misc : 4x, 8270E LL Full List, Forensics TICs
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Hexadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.383	418.00 ng/ml	586285	Perylene-d12 (ISTD)	17.554

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	95
2	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Tetracosane	338	C24H50	000646-31-1	91
5	Hexacosane	366	C26H54	000630-01-3	91

Peak Number 17 2-(4-Hydroxyphenyl)-3,6,8-t... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.485	600.05 ng/ml	841625	Perylene-d12 (ISTD)	17.554

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4-Hydroxyphenyl)-3,6,8-trimet...	344	C18H16O7	112667-10-4	58
2	Imidazo[4,5-g]indeno[1,2-b]quino...	344	C20H16N4O2	1000272-51-2	53
3	trans-3',4',5'-Trimethoxy-4-(met...	344	C19H20O4S	121646-13-7	50
4	4H-1-Benzopyran-4-one, 3,5-dihyd...	344	C18H16O7	014221-65-9	49
5	1',4'-Dimethoxy-2,2'-binaphthale...	344	C22H16O4	054808-07-0	46

Peak Number 18 Tetracosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.057	582.35 ng/ml	689060	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
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Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

Peak	Name	MW	MolForm	CAS#	Rank
1	Tetracosane	338	C24H50	000646-31-1	94
2	Nonadecane	268	C19H40	000629-92-5	94
3	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	93
5	Tetracosane	338	C24H50	000646-31-1	91

 Peak Number 19 10-Nonadecanol Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.137	339.69 ng/ml	401937	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		10-Nonadecanol	284	C19H40O	016840-84-9	52
2		5-Chlorovaleric acid, octadecyl ...	388	C23H45ClO2	1000292-31-8	46
3		Methanone, dicyclohexyl-	194	C13H22O	000119-60-8	30
4		Cyclobutanecarboxylic acid, unde...	252	C16H28O2	1000299-13-6	30
5		2-Hexene, 4,4,5-trimethyl-	126	C9H18	055702-61-9	25

 Peak Number 20 Octacosanol Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.159	223.28 ng/ml	264191	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		10-Nonadecanol	284	C19H40O	016840-84-9	58
2		Octacosanol	410	C28H58O	000557-61-9	55
3		Cyclohexanone, 3-ethyl-	126	C8H14O	022461-89-8	46
4		Tricosyl heptafluorobutyrate	536	C27H47F7O2	1000351-83-4	45
5		Docosyl heptafluorobutyrate	522	C26H45F7O2	1000351-83-1	43

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 21 Heptadecane, 2,6,10,15-tetr... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.635	252.52 ng/ml	298793	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	96
2	Docosane, 11-butyl-	366	C26H54	013475-76-8	93
3	Tridecane, 6-propyl-	226	C16H34	055045-10-8	91
4	Heptadecane	240	C17H36	000629-78-7	91
5	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	87

 Peak Number 22 D:C-Friedoolean-8-en-3-one Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.368	891.57 ng/ml	1054950	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	90
2	Lup-20(29)-en-3-one	424	C30H48O	001617-70-5	90
3	Olean-13(18)-ene	410	C30H50	003399-27-7	53
4	6,10-Dimethyl-3-(1-methylethylid...	206	C15H26	069239-71-0	50
5	Guaia-9,11-diene	204	C15H24	1000374-19-8	49

 Peak Number 23 Lup-20(29)-en-3-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.384	560.47 ng/ml	663170	Dibenz(a,h)Anthrcene-d14 (ISTD)	19.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lup-20(29)-en-3-one	424	C30H48O	001617-70-5	90

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
Data File : E03102113.D
Acq On : 10 Mar 2021 2:57 pm
Operator : JK/ AMS /DTH
Sample : A1C0364-02@4
Misc : 4x, 8270E LL Full List, Forensics TICs
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

1 Lup-20(29)-en-3-one 424 C30H48O 001617-70-5 86
2 D:C-Friedoolean-8-en-3-one 424 C30H48O 022611-26-3 60
3 2-Butenal, 2-methyl-4-(2,6,6-tri... 206 C14H22O 003155-71-3 47
4 Silane, chlorodiethyl(dodec-9-yn... 302 C16H31ClOSi 1000363-59-2 43
5 4,7-Methanoazulene, decahydro-1,... 206 C15H26 020478-88-0 38

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102113.D
 Acq On : 10 Mar 2021 2:57 pm
 Operator : JK/ AMS /DTH
 Sample : A1C0364-02@4
 Misc : 4x, 8270E LL Full List, Forensics TICs
 ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

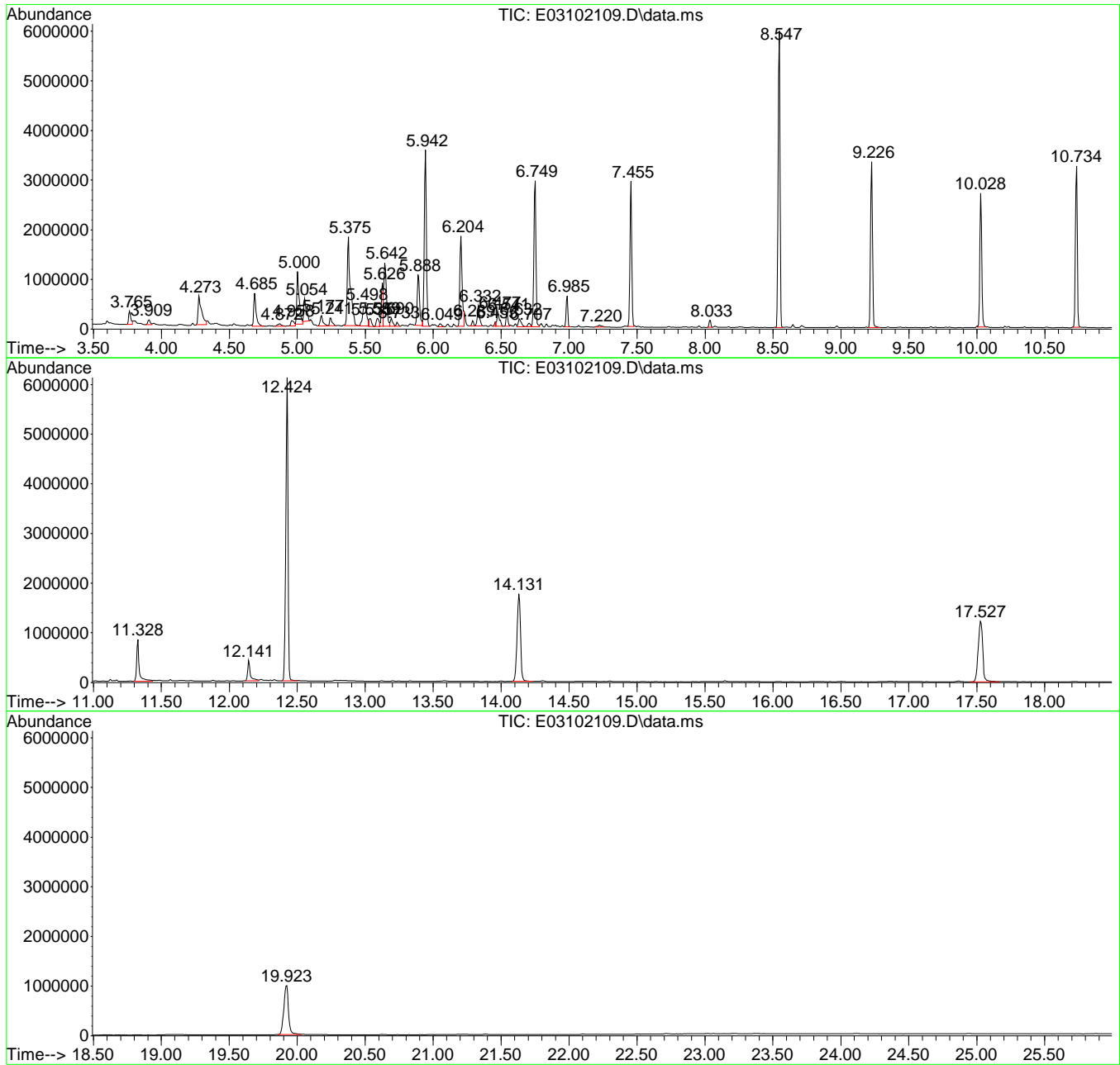
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Cyclopentane, b...	4.535	206.6	ng/ml	190837	1	6.204	1847380	2000.0
5,9-Dodecadien-...	4.840	324.0	ng/ml	299308	1	6.204	1847380	2000.0
(1R)-2,6,6-Trim...	5.541	260.0	ng/ml	240137	1	6.204	1847380	2000.0
Cyclohexane, 1,...	5.648	222.8	ng/ml	205820	1	6.204	1847380	2000.0
.beta.-Myrcene	5.979	453.3	ng/ml	418675	1	6.204	1847380	2000.0
Hexanoic acid, ...	6.915	485.2	ng/ml	631516	2	7.456	2603080	2000.0
Nonanoic acid	7.873	357.5	ng/ml	465313	2	7.456	2603080	2000.0
n-Decanoic acid	8.440	400.5	ng/ml	666569	3	9.226	3328590	2000.0
(1R,2R,3S,5R)-(...	8.483	785.6	ng/ml	1307420	3	9.226	3328590	2000.0
Ethanol, 2-[2-(...	9.007	263.4	ng/ml	438415	3	9.226	3328590	2000.0
n-Hexadecanoic ...	11.333	776.3	ng/ml	1220560	4	10.734	3144530	2000.0
6,7-Dimethoxy-1...	11.948	2170.2	ng/ml	3412140	4	10.734	3144530	2000.0
3,6-Dimethoxy-2...	12.120	2773.1	ng/ml	4360070	4	10.734	3144530	2000.0
Octadecanoic acid	12.146	657.5	ng/ml	1033700	4	10.734	3144530	2000.0
Heptacosane	15.661	395.0	ng/ml	603990	5	14.147	3058460	2000.0
Hexadecane	17.383	418.0	ng/ml	586285	6	17.554	2805200	2000.0
2-(4-Hydroxyphe...	18.485	600.0	ng/ml	841625	6	17.554	2805200	2000.0
Tetracosane	19.057	582.4	ng/ml	689060	7	19.939	2366500	2000.0
10-Nonadecanol	19.137	339.7	ng/ml	401937	7	19.939	2366500	2000.0
Octacosanol	19.159	223.3	ng/ml	264191	7	19.939	2366500	2000.0
Heptadecane, 2,...	20.635	252.5	ng/ml	298793	7	19.939	2366500	2000.0
D:C-Friedoolean...	21.368	891.6	ng/ml	1054950	7	19.939	2366500	2000.0
Lup-20(29)-en-3...	21.384	560.5	ng/ml	663170	7	19.939	2366500	2000.0

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full List
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full Lis
 t, Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

Peak Number 1 Pentanal, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.765	315.69 ng/ml	315467	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentanal, 2-methyl-	100	C6H12O	000123-15-9	56
2		Pentanal, 2-methyl-	100	C6H12O	000123-15-9	56
3		Oxirane, 2-methyl-2-(1-methyleth...	100	C6H12O	072221-03-5	56
4		Pentanal, 2-methyl-	100	C6H12O	000123-15-9	39
5		Butanal, 2-ethyl-	100	C6H12O	000097-96-1	38

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.685	783.78 ng/ml	783211	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5		Acetone	58	C3H6O	000067-64-1	9

Peak Number 3 Cyclopentane, 1,1,3,4-tetra... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.054	589.54 ng/ml	589118	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
Data File : E03102109.D
Acq On : 10 Mar 2021 12:33 pm
Operator : JK/ AMS /DTH
Sample : 1030361-BLK1
Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full Lis
t, Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclopentane, 1,1,3,4-tetramethy...	126	C9H18	053907-60-1	58
2		Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-31-8	53
3		2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	43
4		2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	43
5		2-Pentene, 4-methyl-	84	C6H12	004461-48-7	43

Peak Number 4 Benzene, 1,3-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.177	280.70 ng/ml	280495	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	53
2		3-Hexene, 2,5-dimethyl-, (E)-	112	C8H16	000692-70-6	45
3		Cyclohexane, 1-ethyl-1,3-dimethy...	140	C10H20	062238-31-7	43
4		2-Heptene, 4-methyl-, (E)-	112	C8H16	066225-17-0	43
5		Vinyl crotonate	112	C6H8O2	014861-06-4	43

Peak Number 5 Cyclopentane, 1,2,3,4,5-pen... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.375	2848.06 ng/ml	2846010	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclopentane, 1,2,3,4,5-pentamet...	140	C10H20	1000152-79-7	64
2		2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	53
3		Pelletierine	141	C8H15NO	004396-01-4	43
4		1H-Imidazole, 4,5-dihydro-2-methyl-	84	C4H8N2	000534-26-9	42
5		2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	38

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full Lis
 t, Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Pyrrolidine Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.487	535.12 ng/ml	534738	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pyrrolidine	71	C4H9N	000123-75-1	72
2		Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	72
3		3,3-Dimethyl-2-pentanol	116	C7H16O	019781-24-9	64
4		Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	56
5		Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	56

 Peak Number 7 Sulfurous acid, cyclohexylm... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.589	224.60 ng/ml	224439	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Sulfurous acid, cyclohexylmethyl...	374	C21H42O3S	1000309-22-2	59
2		Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	53
3		3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	47
4		3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	47
5		3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	47

 Peak Number 8 Decane, 3,3,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full Lis
 t, Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
5.626			818.08 ng/ml	817494	1,4-Dichlorobenzene-d4 (ISTD)	6.204	
1			Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
2			Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	78
3			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4			Butane, 1,1'-oxybis[3-methyl-	158	C10H22O	000544-01-4	56
5			Pyrrolidine	71	C4H9N	000123-75-1	56

 Peak Number 9 Sulfurous acid, cyclohexylm... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.			
5.642	1593.70 ng/ml	1592550	1,4-Dichlorobenzene-d4 (ISTD)	6.204			
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Sulfurous acid, cyclohexylmethyl...	304	C16H32O3S	1000309-21-8	72
2			Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
3			2-Fluoropyridine	97	C5H4FN	000372-48-5	64
4			Cycloheptane, bromo-	176	C7H13Br	002404-35-5	59
5			Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	56

 Peak Number 10 .alpha.-Methylstyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.			
5.942	3636.86 ng/ml	3634240	1,4-Dichlorobenzene-d4 (ISTD)	6.204			
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			.alpha.-Methylstyrene	118	C9H10	000098-83-9	97
2			.alpha.-Methylstyrene	118	C9H10	000098-83-9	95
3			.alpha.-Methylstyrene	118	C9H10	000098-83-9	93

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full List, Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

4 Benzene, 1-ethenyl-3-methyl- 118 C9H10 000100-80-1 52
 5 Benzene, 1-ethenyl-4-methyl- 118 C9H10 000622-97-9 49

 Peak Number 11 Nonane, 3-methyl-5-propyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.332	485.92 ng/ml	485568	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	72
2	Pentacosane	352	C25H52	000629-99-2	64
3	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	59
5	Nonane, 5-butyl-	184	C13H28	017312-63-9	59

 Peak Number 12 Pentane, 2,2,3,4-tetramethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.477	367.66 ng/ml	367394	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	59
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	59
3	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	59
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	53
5	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	53

 Peak Number 13 Octane, 2,6-dimethyl- Concentration Rank 17

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
 Operator : JK/ AMS /DTH
 Sample : 1030361-BLK1
 Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full List, Forensics TICs
 ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.541	235.41 ng/ml	235235	1,4-Dichlorobenzene-d4 (ISTD)	6.204

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72
2	Heptane, 4-ethyl-2,2,6,6-tetrame...	184	C13H28	062108-31-0	64
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	59

 Peak Number 14 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.328	664.24 ng/ml	1024790	Phenanthrene-d10 (ISTD)	10.734

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	91

 Peak Number 15 Octadecanoic acid Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.141	346.56 ng/ml	534671	Phenanthrene-d10 (ISTD)	10.734

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
Data File : E03102109.D
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Operator : JK/ AMS /DTH
Sample : 1030361-BLK1
Misc : 1x, 625.1 Full List (AC), 625.1 Full List (Scan), 8270E LL Full Lis
t, Forensics TICs
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SV5_122120R9.M
Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

2 Octadecanoic acid	284 C18H36O2	000057-11-4 99
3 Octadecanoic acid	284 C18H36O2	000057-11-4 99
4 Octadecanoic acid	284 C18H36O2	000057-11-4 95
5 Octadecanoic acid	284 C18H36O2	000057-11-4 94

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\2021-03\1C10031\TICs\
 Data File : E03102109.D
 Acq On : 10 Mar 2021 12:33 pm
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 Sample : 1030361-BLK1
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 Quant Title : EPA 8270D: Semivolatile Organics

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Pentanal, 2-met...	3.765	315.7	ng/ml	315467	1	6.204	1998560	2000.0
2-Pentanone, 4-...	4.685	783.8	ng/ml	783211	1	6.204	1998560	2000.0
Cyclopentane, 1...	5.054	589.5	ng/ml	589118	1	6.204	1998560	2000.0
Benzene, 1,3-di...	5.177	280.7	ng/ml	280495	1	6.204	1998560	2000.0
Cyclopentane, 1...	5.375	2848.1	ng/ml	2846010	1	6.204	1998560	2000.0
Pyrrolidine	5.487	535.1	ng/ml	534738	1	6.204	1998560	2000.0
Sulfurous acid,...	5.589	224.6	ng/ml	224439	1	6.204	1998560	2000.0
Decane, 3,3,4-t...	5.626	818.1	ng/ml	817494	1	6.204	1998560	2000.0
Sulfurous acid,...	5.642	1593.7	ng/ml	1592550	1	6.204	1998560	2000.0
.alpha.-Methyls...	5.942	3636.9	ng/ml	3634240	1	6.204	1998560	2000.0
Nonane, 3-methy...	6.332	485.9	ng/ml	485568	1	6.204	1998560	2000.0
Pentane, 2,2,3,...	6.477	367.7	ng/ml	367394	1	6.204	1998560	2000.0
Octane, 2,6-dim...	6.541	235.4	ng/ml	235235	1	6.204	1998560	2000.0
n-Hexadecanoic ...	11.328	664.2	ng/ml	1024790	4	10.734	3085620	2000.0
Octadecanoic acid	12.141	346.6	ng/ml	534671	4	10.734	3085620	2000.0



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

NELAP Certification Number: CA00046 (HW)
State Certification Number: CA1312 (WW & DW)

April 6, 2021

Apex Laboratory
6700 S.W. Sandburg St.
Tigard, Oregon 97223

Attn: Amy Sager Patton

Subject: Report of Data: Case 95351

Results in this report apply to the sample analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dear Ms. Patton,

Two water samples were received on March 9, 2021. Revised written results are being provided on this April 6, 2021, for the requested analysis. All holding times were met.

For the EPA 1613 and PFAS analyses, the samples were prepared according to the method. Some extracted internal standards recovered outside of control limits.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

for

Loren Portwood, Laboratory Director
APPL, Inc.

LP/gs
Enclosure
cc: File

EPA 1613B DIOXINS FURANS LOW LEV

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton
Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: WEST VALLEY VIEW

APPL ID: BA28318

Sample Collection Date: 03/05/21

QCG: \$1613LL-210318B-262572

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 1613	1,2,3,4,6,7,8-HPCDD	49	25.0	49PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,6,7,8-HPCDF	59 U	25.0	59PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8,9-HPCDF	5.6 U	25.0	5.6DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8-HXCDD	5.3 J	25.0	5.3PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8-HXCDF	3.4 U	25.0	3.4DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,6,7,8-HXCDD	4.1 J	25.0	4.1PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,6,7,8-HXCDF	5.6 U	25.0	5.6PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8,9-HXCDD	1.5 U	25.0	1.5DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8,9-HXCDF	6.1 U	25.0	6.1DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8-PECDD	2.5 U	25.0	2.5PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8-PECDF	2.8 J	25.0	2.8PC	pg/L	03/18/21	04/03/21
EPA 1613	2,3,4,6,7,8-HXCDF	4.0 U	25.0	4.0DL	pg/L	03/18/21	04/03/21
EPA 1613	2,3,4,7,8-PECDF	1.9 J	25.0	1.9PC	pg/L	03/18/21	04/03/21
EPA 1613	2,3,7,8-TCDD	2.1 U	5.0	2.1DL	pg/L	03/18/21	04/03/21
EPA 1613	2,3,7,8-TCDF	1.3 U	5.0	1.3DL	pg/L	03/18/21	04/03/21
EPA 1613	OCDD	270	50.0	270PC	pg/L	03/18/21	04/03/21
EPA 1613	OCDF	46 J	50.0	46PC	pg/L	03/18/21	04/03/21
EPA 1613	TEQ	1.9	NA			03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	75.1	26-166		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	82.1	21-158		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8,9-HPCDF (S)	73.6	20-186		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8-HXCDD (S)	78.8	21-193		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	89.9	19-202		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	85.2	25-163		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,6,7,8-HXCDF (S)	77.7	21-159		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8,9-HXCDF (S)	78.4	17-205		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	84.9	21-227		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	82.7	21-192		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,4,6,7,8-HXCDF (S)	80.4	22-176		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,4,7,8-PECDF (S)	83.1	13-328		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,7,8-TCDD (S)	85.2	20-175		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,7,8-TCDF (S)	81.7	22-152		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-OCDD (S)	69.7	13-199		%	03/18/21	04/03/21

J = Estimated value.

Quant Method: 210402_HR_28
Run #: 210402
Instrument: 1
Sequence: Magneto
Dilution Factor: 95.6
Initials: RP

Printed: 04/05/21 3:05:30 PM
Form 1 - APPL Standard GC - No MC

EPA 1613B DIOXINS FURANS LOW LEV

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton
Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: NORTHRIDGE TERRACE

APPL ID: BA28319

Sample Collection Date: 03/05/21

QCG: \$1613LL-210318B-262572

Method	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
EPA 1613	1,2,3,4,6,7,8-HPCDD	19 J	25.0	19PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,6,7,8-HPCDF	10 U	25.0	10PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8,9-HPCDF	4.2 U	25.0	4.2DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8-HXCDD	2.6 U	25.0	2.6PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,4,7,8-HXCDF	2.9 U	25.0	2.9DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,6,7,8-HXCDD	2.9 U	25.0	2.9PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,6,7,8-HXCDF	3.1 U	25.0	3.1DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8,9-HXCDD	3.5 U	25.0	3.5PC	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8,9-HXCDF	5.0 U	25.0	5.0DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8-PECDD	1.7 U	25.0	1.7DL	pg/L	03/18/21	04/03/21
EPA 1613	1,2,3,7,8-PECDF	1.7 U	25.0	1.7DL	pg/L	03/18/21	04/03/21
EPA 1613	2,3,4,6,7,8-HXCDF	2.2 U	25.0	2.2PC	pg/L	03/18/21	04/03/21
EPA 1613	2,3,4,7,8-PECDF	1.6 U	25.0	1.6DL	pg/L	03/18/21	04/03/21
EPA 1613	2,3,7,8-TCDD	2.3 U	5.0	2.3DL	pg/L	03/18/21	04/03/21
EPA 1613	2,3,7,8-TCDF	1.8 U	5.0	1.8DL	pg/L	03/18/21	04/03/21
EPA 1613	OCDD	110	50.0	110PC	pg/L	03/18/21	04/03/21
EPA 1613	OCDF	8.5 J	50.0	8.5PC	pg/L	03/18/21	04/03/21
EPA 1613	TEQ	0.23	NA			03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	76.6	26-166		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	77.1	21-158		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8,9-HPCDF (S)	74.0	20-186		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8-HXCDD (S)	73.7	21-193		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	86.3	19-202		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	78.6	25-163		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,6,7,8-HXCDF (S)	70.3	21-159		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8,9-HXCDF (S)	76.3	17-205		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	69.9	21-227		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	69.1	21-192		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,4,6,7,8-HXCDF (S)	75.4	22-176		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,4,7,8-PECDF (S)	69.1	13-328		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,7,8-TCDD (S)	78.6	20-175		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-2,3,7,8-TCDF (S)	76.1	22-152		%	03/18/21	04/03/21
EPA 1613	SURROGATE: 13C-OCDD (S)	80.5	13-199		%	03/18/21	04/03/21

J = Estimated value.

Quant Method: 210402_1613
Run #: 210402_HR_29
Instrument: Magneto
Sequence: 210402
Dilution Factor: 1
Initials: RP

Printed: 04/05/21 3:05:30 PM
Form 1 - APPL Standard GC - No MC

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: WEST VALLEY VIEW

APPL ID: BA28318

Sample Collection Date: 03/05/21

QCG: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	03/17/21	03/22/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	03/17/21	03/22/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	03/17/21	03/22/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	03/17/21	03/22/21
B-15	FTS 6:2	63	8.0	0.45	ng/L	03/17/21	03/22/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	03/17/21	03/22/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	03/17/21	03/22/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	03/17/21	03/22/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFBS	4.1 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDA	3.4 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDOA	1.1 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHPA	4.0 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	03/17/21	03/22/21
B-15	PFHXA	14	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNA	1.3 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	03/17/21	03/22/21
B-15	PFOA	7.3	5.0	0.41	ng/L	03/17/21	03/22/21
B-15	PFOS	6.9	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFOSA	0.92 J	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFPEA	19	5.0	0.31	ng/L	03/17/21	03/22/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	03/17/21	03/22/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	03/17/21	03/22/21
B-15	SURROGATE: 13C2-4:2FTS (S)	121	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-6:2FTS (S)	125	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-8:2FTS (S)	130	50-150		%	03/17/21	03/22/21

J = Estimated value.

Quant Method: B15\2021_03_09
Run #: 2021-03-2219
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: WEST VALLEY VIEW

APPL ID: BA28318

Sample Collection Date: 03/05/21

QCG: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	85.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-PFTEDA (S)	93.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	77.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFBS (S)	68.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFHXS (S)	70.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFBA (S)	66.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFHFA (S)	68.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFHXA (S)	70.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFPEA (S)	61.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C6-PFDA (S)	75.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C7-PFUDA (S)	89.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOA (S)	74.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOS (S)	87.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOSA (S)	105	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C9-PFNA (S)	76.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-MEFOSA (S)	53.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-NMEFOSAA (S)	118	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-ETFOSA (S)	74.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-NETFOSAA (S)	125	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D7-MEFOSE (S)	102	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D9-ETFOSE (S)	127	50-150		%	03/17/21	03/22/21

J = Estimated value.

Quant Method: B15\2021_03_09
Run #: 2021-03-2219
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: NORTHRIDGE TERRACE

APPL ID: BA28319

Sample Collection Date: 03/05/21

CGC: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	03/17/21	03/22/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	03/17/21	03/22/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	03/17/21	03/22/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	03/17/21	03/22/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	03/17/21	03/22/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	03/17/21	03/22/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	03/17/21	03/22/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	03/17/21	03/22/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFBS	1.1 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDA	3.3 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDOA	0.76 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHPA	1.6 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	03/17/21	03/22/21
B-15	PFHXA	2.4 J	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHXS	1.2 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	03/17/21	03/22/21
B-15	PFOA	2.0 J	5.0	0.41	ng/L	03/17/21	03/22/21
B-15	PFOS	2.8 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFOSA	1.0 J	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFPEA	12	5.0	0.31	ng/L	03/17/21	03/22/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	03/17/21	03/22/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	03/17/21	03/22/21
B-15	SURROGATE: 13C2-4:2FTS (S)	109	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-6:2FTS (S)	107	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-8:2FTS (S)	105	50-150		%	03/17/21	03/22/21

J = Estimated value.

= Recovery (or RPD) is outside QC limits.

Quant Method: B15/2021_03_09
Run #: 2021-03-2220
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM

APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

Sample ID: **NORTHRIDGE TERRACE**

Sample Collection Date: 03/05/21

ARF: 95351

APPL ID: **BA28319**

QCG: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	73.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-PFTEDA (S)	81.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	70.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFBS (S)	65.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFHXS (S)	67.4	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFBA (S)	63.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFHPA (S)	65.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFHXA (S)	68.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFPEA (S)	59.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C6-PFDA (S)	70.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C7-PFUDA (S)	83.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOA (S)	67.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOS (S)	78.5	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOSA (S)	93.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C9-PFNA (S)	72.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-MEFOSA (S)	48.0 #	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-NMEFOSAA (S)	92.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-ETFOSA (S)	65.4	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-NETFOSAA (S)	105	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D7-MEFOSE (S)	91.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D9-ETFOSE (S)	120	50-150		%	03/17/21	03/22/21

J = Estimated value.

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_03_09
Run #: 2021-03-2220
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: WEST VALLEY VIEW - FIELD BLANK

APPL ID: BA28431

Sample Collection Date: 03/05/21

CGC: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	03/17/21	03/22/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	03/17/21	03/22/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	03/17/21	03/22/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	03/17/21	03/22/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	03/17/21	03/22/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	03/17/21	03/22/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	03/17/21	03/22/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	03/17/21	03/22/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFBS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHPA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	03/17/21	03/22/21
B-15	PFHXA	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHXS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	03/17/21	03/22/21
B-15	PFOA	Not detected	5.0	0.41	ng/L	03/17/21	03/22/21
B-15	PFOS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	03/17/21	03/22/21
B-15	PFPEs	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	03/17/21	03/22/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	03/17/21	03/22/21
B-15	SURROGATE: 13C2-4:2FTS (S)	92.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-6:2FTS (S)	123	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-8:2FTS (S)	152 #	50-150		%	03/17/21	03/22/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_03_09
Run #: 2021-03-2223
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

Sample ID: WEST VALLEY VIEW - FIELD BLANK

Sample Collection Date: 03/05/21

ARF: 95351

APPL ID: BA28431

QCG: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	83.4	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-PFTEDA (S)	93.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	91.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFBS (S)	73.5	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFHXS (S)	74.5	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFBA (S)	83.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFHFA (S)	78.3	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFHXA (S)	80.3	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFPEA (S)	77.9	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C6-PFDA (S)	82.9	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C7-PFUDA (S)	91.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOA (S)	84.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOS (S)	87.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOSA (S)	115	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C9-PFNA (S)	85.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-MEFOSA (S)	54.9	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-NMEFOSAA (S)	124	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-ETFOSA (S)	75.3	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-NETFOSAA (S)	113	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D7-MEFOSE (S)	108	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D9-ETFOSE (S)	129	50-150		%	03/17/21	03/22/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_03_09
Run #: 2021-03-2223
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: **NORTHRIDGE TERRACE - FIELD BLANK**

APPL ID: **BA28432**

Sample Collection Date: 03/05/21

CGC: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	03/17/21	03/22/21
B-15	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	03/17/21	03/22/21
B-15	ADONA	Not detected	8.0	1.30	ng/L	03/17/21	03/22/21
B-15	FTS 4:2	Not detected	8.0	0.54	ng/L	03/17/21	03/22/21
B-15	FTS 6:2	Not detected	8.0	0.45	ng/L	03/17/21	03/22/21
B-15	FTS 8:2	Not detected	8.0	1.01	ng/L	03/17/21	03/22/21
B-15	HFPO-DA	Not detected	8.0	2.45	ng/L	03/17/21	03/22/21
B-15	N-ETFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-ETFOSAA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	N-ETFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	N-MEFOSAA	Not detected	8.0	0.36	ng/L	03/17/21	03/22/21
B-15	N-MEFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
B-15	PFBA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFBS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDOA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFDS	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHPA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFHPS	Not detected	5.0	0.28	ng/L	03/17/21	03/22/21
B-15	PFHXA	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
B-15	PFHXS	0.68 J	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFNS	Not detected	8.0	0.40	ng/L	03/17/21	03/22/21
B-15	PFOA	Not detected	5.0	0.41	ng/L	03/17/21	03/22/21
B-15	PFOS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFOSA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
B-15	PFPEA	Not detected	5.0	0.31	ng/L	03/17/21	03/22/21
B-15	PFPEP	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFTEDA	Not detected	8.0	0.43	ng/L	03/17/21	03/22/21
B-15	PFTRDA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
B-15	PFUDA	Not detected	5.0	0.40	ng/L	03/17/21	03/22/21
B-15	SURROGATE: 13C2-4:2FTS (S)	87.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-6:2FTS (S)	108	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-8:2FTS (S)	133	50-150		%	03/17/21	03/22/21

J = Estimated value.

Quant Method: B15\2021_03_09
Run #: 2021-03-2224
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

PFAS IN WATER

Apex Laboratories, LLC
6700 SW Sandburg St.
Tigard, OR 97223

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Amy Sager Patton

Project: Post-Fire WQ/Q011

ARF: 95351

Sample ID: **NORTHRIDGE TERRACE - FIELD BLANK**

APPL ID: **BA28432**

Sample Collection Date: 03/05/21

QCG: #PFASC-210317A1-262248

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
B-15	SURROGATE: 13C2-PFDOA (S)	87.5	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C2-PFTEDA (S)	93.2	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-HFPO-DA (S)	89.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFBS (S)	77.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C3-PFHXS (S)	75.0	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFBA (S)	83.6	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C4-PFHFA (S)	75.3	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFHXA (S)	81.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C5-PFPEA (S)	77.7	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C6-PFDA (S)	79.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C7-PFUDA (S)	93.4	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOA (S)	86.9	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOS (S)	87.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C8-PFOSA (S)	110	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: 13C9-PFNA (S)	87.8	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-MEFOSA (S)	53.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D3-NMEFOSAA (S)	109	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-ETFOSA (S)	71.1	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D5-NETFOSAA (S)	123	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D7-MEFOSE (S)	104	50-150		%	03/17/21	03/22/21
B-15	SURROGATE: D9-ETFOSE (S)	121	50-150		%	03/17/21	03/22/21

J = Estimated value.

Quant Method: B15\2021_03_09
Run #: 2021-03-2224
Instrument: Saphira
Sequence: 2021-03-22
Dilution Factor: 1
Initials: HHE

Printed: 03/25/21 2:45:52 PM
APPL-F1-SC-NoMC-REG MDLs

Method Blank

EPA 1613B DIOXINS FURANS LOW LEV

Blank Name/QCG: **210318W-28318 - 262572**
 Batch ID: \$1613LL-210318B

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	EDL/EMPC	Units	Ext Date	Analysis Date
BLANK	1,2,3,4,6,7,8-HPCDD	0.45 U	25.0	0.45DL	pg/L	03/18/21	04/03/21
BLANK	1,2,3,4,6,7,8-HPCDF	0.46 U	25.0	0.46PC	pg/L	03/18/21	04/03/21
BLANK	1,2,3,4,7,8,9-HPCDF	0.88 U	25.0	0.88DL	pg/L	03/18/21	04/03/21
BLANK	1,2,3,4,7,8-HXCDD	0.86 U	25.0	0.86DL	pg/L	03/18/21	04/03/21
BLANK	1,2,3,4,7,8-HXCDF	0.81 U	25.0	0.81DL	pg/L	03/18/21	04/03/21
BLANK	1,2,3,6,7,8-HXCDD	0.73 U	25.0	0.73PC	pg/L	03/18/21	04/03/21
BLANK	1,2,3,6,7,8-HXCDF	0.98 U	25.0	0.98PC	pg/L	03/18/21	04/03/21
BLANK	1,2,3,7,8,9-HXCDD	0.72 U	25.0	0.72DL	pg/L	03/18/21	04/03/21
BLANK	1,2,3,7,8,9-HXCDF	0.61 U	25.0	0.61PC	pg/L	03/18/21	04/03/21
BLANK	1,2,3,7,8-PECDD	1.9 U	25.0	1.9PC	pg/L	03/18/21	04/03/21
BLANK	1,2,3,7,8-PECDF	1.5 U	25.0	1.5PC	pg/L	03/18/21	04/03/21
BLANK	2,3,4,6,7,8-HXCDF	0.95 U	25.0	0.95DL	pg/L	03/18/21	04/03/21
BLANK	2,3,4,7,8-PECDF	0.76 U	25.0	0.76PC	pg/L	03/18/21	04/03/21
BLANK	2,3,7,8-TCDD	1.4 U	5.0	1.4DL	pg/L	03/18/21	04/03/21
BLANK	2,3,7,8-TCDF	0.46 U	5.0	0.46PC	pg/L	03/18/21	04/03/21
BLANK	OCDD	1.3 U	50.0	1.3PC	pg/L	03/18/21	04/03/21
BLANK	OCDF	0.51 U	50.0	0.51PC	pg/L	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD (S)	83.8	26-166		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (S)	87.2	21-158		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,4,7,8,9-HPCDF (S)	89.6	20-186		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDD (S)	75.0	21-193		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S)	83.0	19-202		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S)	98.5	25-163		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,6,7,8-HXCDF (S)	73.9	21-159		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,7,8,9-HXCDF (S)	85.7	17-205		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDD (S)	83.2	21-227		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-1,2,3,7,8-PECDF (S)	85.5	21-192		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-2,3,4,6,7,8-HXCDF (S)	77.2	22-176		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-2,3,4,7,8-PECDF (S)	83.2	13-328		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-2,3,7,8-TCDD (S)	69.2	20-175		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-2,3,7,8-TCDF (S)	68.7	22-152		%	03/18/21	04/03/21
BLANK	SURROGATE: 13C-OCDD (S)	77.3	13-199		%	03/18/21	04/03/21

Quant Method: 210402_1613
 Run #: 210402_HR_12
 Instrument: Magneto
 Sequence: 210402
 Initials: RP

Laboratory Control Spike Recoveries

EPA 1613B DIOXINS FURANS LOW LEV

APPL ID: 210318W-28318 LCS - 262572

Batch ID: #1613LL-210318B

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2,3,4,6,7,8-HPCDD	4000	3770	3850	94.3	96.3	70-140	2.1	30
1,2,3,4,6,7,8-HPCDF	4000	3590	3640	89.8	91.0	82-122	1.4	30
1,2,3,4,7,8,9-HPCDF	4000	3560	3750	89.0	93.8	78-138	5.2	30
1,2,3,4,7,8-HXCDD	4000	4010	4380	100	110	70-164	8.8	30
1,2,3,4,7,8-HXCDF	4000	3450	3610	86.3	90.3	72-134	4.5	30
1,2,3,6,7,8-HXCDD	4000	3540	3730	88.5	93.3	76-134	5.2	30
1,2,3,6,7,8-HXCDF	4000	3740	3850	93.5	96.3	84-130	2.9	30
1,2,3,7,8,9-HXCDD	4000	3730	3970	93.3	99.3	64-162	6.2	30
1,2,3,7,8,9-HXCDF	4000	3770	3870	94.3	96.8	78-130	2.6	30
1,2,3,7,8-PECDD	4000	3820	4050	95.5	101	70-142	5.8	30
1,2,3,7,8-PECDF	4000	3630	3870	90.8	96.8	80-134	6.4	30
2,3,4,6,7,8-HXCDF	4000	3980	4100	99.5	103	70-156	3.0	30
2,3,4,7,8-PECDF	4000	3890	3990	97.3	99.8	68-160	2.5	30
2,3,7,8-TCDD	800	736	810	92.0	101	67-158	9.6	30
2,3,7,8-TCDF	800	706	772	88.3	96.5	75-158	8.9	30
OCDD	8000	7890	7930	98.6	99.1	78-144	0.51	30
OCDF	8000	7930	8360	99.1	105	63-170	5.3	30

SURROGATE: 13C-1,2,3,4,6,7,8-HPCDD	2000	1860	1910	93.0	95.5	26-166		
SURROGATE: 13C-1,2,3,4,6,7,8-HPCDF (2000	1860	1950	93.0	97.5	21-158		
SURROGATE: 13C-1,2,3,4,7,8,9-HPCDF (2000	1950	1990	97.5	99.5	20-186		
SURROGATE: 13C-1,2,3,4,7,8-HXCDD (S	2000	1750	1670	87.5	83.5	21-193		
SURROGATE: 13C-1,2,3,4,7,8-HXCDF (S	2000	1920	1900	96.0	95.0	19-202		
SURROGATE: 13C-1,2,3,6,7,8-HXCDD (S	2000	2160	2100	108	105	25-163		
SURROGATE: 13C-1,2,3,6,7,8-HXCDF (S	2000	1730	1710	86.5	85.5	21-159		

Comments: _____

Primary	SPK	DUP
Quant Method :	210402_1613	210402_1613
Extraction Date :	03/18/21	03/18/21
Analysis Date :	04/02/21	04/03/21
Instrument :	Magneto	Magneto
Run :	210402_HR_10	210402_HR_11
Initials :	RP	

Laboratory Control Spike Recoveries

EPA 1613B DIOXINS FURANS LOW LEV

APPL ID: 210318W-28318 LCS - 262572

Batch ID: #1613LL-210318B

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl pg/L	SPK Result pg/L	DUP Result pg/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C-1,2,3,7,8,9-HXCDF (S)	2000	1930	1900	96.5	95.0	17-205		
SURROGATE: 13C-1,2,3,7,8-PECDD (S)	2000	1840	1710	92.0	85.5	21-227		
SURROGATE: 13C-1,2,3,7,8-PECDF (S)	2000	1870	1770	93.5	88.5	21-192		
SURROGATE: 13C-2,3,4,6,7,8-HXCDF (S)	2000	1770	1740	88.5	87.0	22-176		
SURROGATE: 13C-2,3,4,7,8-PECDF (S)	2000	1800	1710	90.0	85.5	13-328		
SURROGATE: 13C-2,3,7,8-TCDD (S)	2000	1740	1600	87.0	80.0	20-175		
SURROGATE: 13C-2,3,7,8-TCDF (S)	2000	1670	1570	83.5	78.5	22-152		
SURROGATE: 13C-OCDD (S)	4000	3540	3710	88.5	92.8	13-199		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	210402_1613	210402_1613
Extraction Date :	03/18/21	03/18/21
Analysis Date :	04/02/21	04/03/21
Instrument :	Magneto	Magneto
Run :	210402_HR_10	210402_HR_11
Initials :	RP	

Method Blank

PFAS IN WATER

Blank Name/QCG: **210317W-28318 - 262248**
 Batch ID: #PFASC-210317A1

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	11-CL-PF3OUDS	Not detected	8.0	1.20	ng/L	03/17/21	03/22/21
BLANK	9-CL-PF3ONS	Not detected	8.0	1.18	ng/L	03/17/21	03/22/21
BLANK	ADONA	Not detected	8.0	1.30	ng/L	03/17/21	03/22/21
BLANK	FTS 4:2	Not detected	8.0	0.54	ng/L	03/17/21	03/22/21
BLANK	FTS 6:2	Not detected	8.0	0.45	ng/L	03/17/21	03/22/21
BLANK	FTS 8:2	Not detected	8.0	1.01	ng/L	03/17/21	03/22/21
BLANK	HFPO-DA	Not detected	8.0	2.45	ng/L	03/17/21	03/22/21
BLANK	N-ETFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
BLANK	N-ETFOSAA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
BLANK	N-ETFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
BLANK	N-MEFOSA	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
BLANK	N-MEFOSAA	Not detected	8.0	0.36	ng/L	03/17/21	03/22/21
BLANK	N-MEFOSE	Not detected	8.0	3.00	ng/L	03/17/21	03/22/21
BLANK	PFBA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFBS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFDA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFDOA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFDS	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
BLANK	PFHPA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFHPS	Not detected	5.0	0.28	ng/L	03/17/21	03/22/21
BLANK	PFHXA	Not detected	5.0	0.32	ng/L	03/17/21	03/22/21
BLANK	PFHXS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFNA	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFNS	Not detected	8.0	0.40	ng/L	03/17/21	03/22/21
BLANK	PFOA	Not detected	5.0	0.41	ng/L	03/17/21	03/22/21
BLANK	PFOS	Not detected	5.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFOSA	Not detected	8.0	0.25	ng/L	03/17/21	03/22/21
BLANK	PFPEA	Not detected	5.0	0.31	ng/L	03/17/21	03/22/21
BLANK	PFPEA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
BLANK	PFTEDA	Not detected	8.0	0.43	ng/L	03/17/21	03/22/21
BLANK	PFTRDA	Not detected	5.0	0.29	ng/L	03/17/21	03/22/21
BLANK	PFUDA	Not detected	5.0	0.40	ng/L	03/17/21	03/22/21
BLANK	SURROGATE: 13C2-4:2FTS (S)	89.6	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C2-6:2FTS (S)	95.1	50-150		%	03/17/21	03/22/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_03
 Run #: 2021-03-228
 Instrument: Saphira
 Sequence: 2021-03-22
 Initials: HHE

GC SC-Blank-REG MDLs
 Printed: 03/25/21 2:45:18 PM

Method Blank PFAS IN WATER

Blank Name/QCG: **210317W-28318 - 262248**
Batch ID: #PFASC-210317A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	SURROGATE: 13C2-8:2FTS (S)	102	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C2-PFDOA (S)	82.9	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C2-PFTEDA (S)	88.0	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C3-HFPO-DA (S)	92.4	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C3-PFBS (S)	78.9	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C3-PFHXS (S)	73.7	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C4-PFBA (S)	87.4	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C4-PFHPA (S)	79.6	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C5-PFHXA (S)	85.7	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C5-PFPEA (S)	83.4	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C6-PFDA (S)	77.8	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C7-PFUDA (S)	84.8	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C8-PFOA (S)	84.2	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C8-PFOS (S)	88.4	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C8-PFOSA (S)	100	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: 13C9-PFNA (S)	78.7	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D3-MEFOSA (S)	39.3 #	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D3-NMEFOSAA (S)	113	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D5-ETFOSA (S)	65.6	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D5-NETFOSAA (S)	111	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D7-MEFOSE (S)	95.4	50-150		%	03/17/21	03/22/21
BLANK	SURROGATE: D9-ETFOSE (S)	93.5	50-150		%	03/17/21	03/22/21

= Recovery (or RPD) is outside QC limits.

Quant Method: B15\2021_03
Run #: 2021-03-228
Instrument: Saphira
Sequence: 2021-03-22
Initials: HHE

GC SC-Blank-REG MDLs
Printed: 03/25/21 2:45:18 PM

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 210317W-28318 LCS - 262248

Batch ID: #PFASC-210317A1

APPL Inc.

908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
11-CL-PF3OUDS	189	223	208	118	110	54-138	7.0	30
9-CL-PF3ONS	187	185	175	99.1	93.8	62-140	5.6	30
ADONA	189	192	188	102	99.5	61-169	2.1	30
FTS 4:2	187	171	170	91.5	91.0	63-143	0.59	30
FTS 6:2	190	187	187	98.5	98.5	64-140	0.0	30
FTS 8:2	192	214	199	112	104	67-138	7.3	30
HFPO-DA	200	193	192	96.5	96.0	44-175	0.52	30
N-ETFOSA	200	182	184	91.0	92.0	76-137	1.1	30
N-ETFOSAA	200	202	180	101	90.0	61-135	11.5	30
N-ETFOSE	200	220	181	110	90.5	39-150	19.5	30
N-MEFOSA	200	177	169	88.5	84.5	68-141	4.6	30
N-MEFOSAA	200	190	203	95.0	102	65-136	6.6	30
N-MEFOSE	200	220	198	110	99.0	68-144	10.5	30
PFBA	200	184	179	92.0	89.5	73-129	2.8	30
PFBS	177	169	167	95.5	94.4	72-130	1.2	30
PFDA	200	204	188	102	94.0	71-129	8.2	30
PFDOA	200	196	185	98.0	92.5	72-134	5.8	30
PFDS	193	221	197	115	102	53-142	11.5	30
PFHPA	200	189	197	94.5	98.5	72-130	4.1	30
PFHPS	190	202	175	106	92.0	69-134	14.3	30
PFHXA	200	201	189	101	94.5	72-129	6.2	30
PFHXS	182	178	167	97.7	91.7	68-131	6.4	30
PFNA	200	188	186	94.0	93.0	69-130	1.1	30
PFNS	192	205	180	107	93.8	69-127	13.0	30

Comments: _____

Primary	SPK	DUP
Quant Method :	B15\2021_03_09	B15\2021_03_09
Extraction Date :	03/17/21	03/17/21
Analysis Date :	03/22/21	03/22/21
Instrument :	Saphira	Saphira
Run :	2021-03-229	2021-03-2210
Initials :	HHE	

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 210317W-28318 LCS - 262248

Batch ID: #PFASC-210317A1

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
PFOA	200	182	175	91.0	87.5	71-133	3.9	30
PFOS	185	176	164	94.9	88.4	65-140	7.1	30
PFOSA	200	169	168	84.5	84.0	67-137	0.59	30
PFPEA	200	192	181	96.0	90.5	72-129	5.9	30
PFPEs	188	192	182	102	97.0	71-127	5.3	30
PFTEDA	200	205	189	103	94.5	71-132	8.1	30
PFTRDA	200	191	191	95.5	95.5	65-144	0.0	30
PFUDA	200	158	165	79.0	82.5	69-133	4.3	30

SURROGATE: 13C2-4:2FTS (S)	100	87.9	87.4	87.9	87.4	50-150		
SURROGATE: 13C2-6:2FTS (S)	100	83.5	89.1	83.5	89.1	50-150		
SURROGATE: 13C2-8:2FTS (S)	100	88.0	95.9	88.0	95.9	50-150		
SURROGATE: 13C2-PFDOA (S)	100	80.6	81.8	80.6	81.8	50-150		
SURROGATE: 13C2-PFTEDA (S)	100	86.4	90.6	86.4	90.6	50-150		
SURROGATE: 13C3-HFPO-DA (S)	100	88.0	85.4	88.0	85.4	50-150		
SURROGATE: 13C3-PFBS (S)	100	78.5	78.4	78.5	78.4	50-150		
SURROGATE: 13C3-PFHXS (S)	100	72.5	77.4	72.5	77.4	50-150		
SURROGATE: 13C4-PFBA (S)	100	85.0	90.1	85.0	90.1	50-150		
SURROGATE: 13C4-PFHPA (S)	100	76.2	75.0	76.2	75.0	50-150		
SURROGATE: 13C5-PFHXA (S)	100	80.9	81.0	80.9	81.0	50-150		
SURROGATE: 13C5-PFPEA (S)	100	80.4	84.1	80.4	84.1	50-150		
SURROGATE: 13C6-PFDA (S)	100	69.0	75.1	69.0	75.1	50-150		
SURROGATE: 13C7-PFUDA (S)	100	82.8	89.1	82.8	89.1	50-150		
SURROGATE: 13C8-PFOA (S)	100	82.6	83.2	82.6	83.2	50-150		
SURROGATE: 13C8-PFOS (S)	100	80.5	86.6	80.5	86.6	50-150		

Comments: _____

Primary	SPK	DUP
Quant Method :	B15\2021_03_09	B15\2021_03_09
Extraction Date :	03/17/21	03/17/21
Analysis Date :	03/22/21	03/22/21
Instrument :	Saphira	Saphira
Run :	2021-03-229	2021-03-2210
Initials :	HHE	

Laboratory Control Spike Recoveries

PFAS IN WATER

APPL ID: 210317W-28318 LCS - 262248

Batch ID: #PFASC-210317A1

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ng/L	SPK Result ng/L	DUP Result ng/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
SURROGATE: 13C8-PFOSA (S)	100	101	104	101	104	50-150		
SURROGATE: 13C9-PFNA (S)	100	75.0	78.7	75.0	78.7	50-150		
SURROGATE: D3-MEFOSA (S)	100	83.4	60.3	83.4	60.3	50-150		
SURROGATE: D3-NMEFOSAA (S)	100	97.4	94.2	97.4	94.2	50-150		
SURROGATE: D5-ETFOSA (S)	100	70.2	71.5	70.2	71.5	50-150		
SURROGATE: D5-NETFOSAA (S)	100	91.7	103	91.7	103	50-150		
SURROGATE: D7-MEFOSE (S)	100	91.6	99.9	91.6	99.9	50-150		
SURROGATE: D9-ETFOSE (S)	100	111	99.2	111	99.2	50-150		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	B15\2021_03_09	B15\2021_03_09
Extraction Date :	03/17/21	03/17/21
Analysis Date :	03/22/21	03/22/21
Instrument :	Saphira	Saphira
Run :	2021-03-229	2021-03-2210
Initials :	HHE	



APPL, Inc.
 908 N Temperance Ave
 Clovis, CA 93611
 www.applinc.com

CHAIN OF CUSTODY RECORD

95351

Phone: (559) 275-2175
 Fax: (559) 275-4422
 coc@applinc.com

C.O.C. 58965

Report to: PLEASE PRINT

Company Name: RVSS Phone: 541-779-4144

Address: 138 W Vilas Rd
Central Point, OR 97502 Fax: _____

Attn: Jennie Morgan

Email: jmorgan@rvss.us

Invoice to: PLEASE PRINT

Company Name: Same Phone: _____

Address: _____ Fax: _____

Attn: _____

Email: _____

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number						Date Shipped: <u>3-8-21</u>
		Matrix						Carrier:
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil	PFAS	Dioxin	Waybill No.:
Sample Identification	Location							Date Collected
<u>Post-Fire WQ/Q011</u>	<u>Jennie Morgan</u>							
	<u>Jennie Morgan</u>							
<u>West Valky View</u>		<u>3-5</u>	<u>17:45</u>	<u>PST</u>	<u>2</u>	<u>X</u>	<u>X</u>	
<u>Northridge Terrace</u>		<u>3-5</u>	<u>16:40</u>	<u>PST</u>	<u>2</u>	<u>X</u>	<u>✓</u>	
<u>West Valley View</u>		<u>3-5</u>	<u>17:45</u>	<u>PST</u>	<u>2</u>	<u>Y</u>	<u>✓</u>	
<u>Northridge Terrace</u>		<u>3-5</u>	<u>16:40</u>	<u>PST</u>	<u>2</u>	<u>Y</u>	<u>✓</u>	

Shuttle Temperature: 24 @ 6.0/6.0
IRB 3.3/0.9 °C

Turnaround Requested: Check one
 Standard 2-3 wk One week 3 days 24/48 Hrs. Other: _____

Sample Disposal:
 Return to client Disposal by Lab (30-day retention)

Relinquished by sampler: Jennie Morgan Date: 3-8 Time: 3:15 Received by: _____ Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: Jennie Morgan Date: _____ Time: _____ Received by: _____ Relinquished by: _____ Date: 3-9-21 Time: 1150 Received at lab by: _____

COOLER RECEIPT FORM

ARF: 95351

- 1) Project: Post-Fire WQ/Q011 Date Received: 03/09/21
2) Coolers: Number of Coolers: 2
3) No Were custody seals present and intact? How many? 0 Name/Date on seal?
4) YES Was there a shipping slip? Carrier name: FEDEX
5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other wet ice dry ice no ice X gel ice
6) YES Were cooler temperatures acceptable?
7) Serial number of calibrated thermometer used: R4 CF:+0.0°C / IRB CF:-2.4°C
8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 6.0/6.0 2: 3.3/0.9 3: 4: 5: 6:
7: 8: 9: 10: 11: 12:

Chain of custody:

- 9) YES Was a chain of custody received?
10) No Were the custody papers complete/signed in the appropriate places?

Sample Labels:

- 11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?
12) No Did all container labels agree with custody papers?

Sample Containers:

- 13) YES Were all containers sealed in separate bags?
14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?
15) YES Were correct containers and preservatives used for the tests indicated?
16) YES Was a sufficient amount of sample sent for tests indicated?
17) NA Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea:
Smaller than a pea:

Preservation Hold time:

- 18) Yes Was a sufficient amount of holding time remaining to analyze the samples?
19) NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
20) NA Was the pH of acid preserved non-VOA samples < 2?
21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?
22) NO Were unpreserved VOA Vials received for VOA Dept analysis?
23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number:
Lab notified if pH was not adequate:

Notes/Deficiencies:

No TAT listed on COC, field blank received for each sample not listed on COC

Personnel receiving samples: MS Second reviewer: SS
Personnel labeling samples: MS
Project manager notified: SS Date/Time of notification 03/09/21
Name of client notified: Date/Time of notification



1435 Norjohn Court, Unit 1, Burlington, ON, Canada L7L 0E6
Phone: 905-331-3111, FAX: 905-331-4567

Certificate of Analysis

ALS Project Contact:	Breanne Dusureault	Client Name:	Apex Laboratories, LLC
ALS Project ID:	BUR100	Client Address:	6700 SW Sandburg Street
ALS WO#:	L2565983		Tigard, OR, 97223
Date of Report	20-Apr-21	Client Contact:	Amy Sager Patton
Date of Sample Receipt	11-Mar-21	Client Project ID:	A1C0364

COMMENTS: Brominated Flame Retardants by EPA 1614

Certified by:

A handwritten signature in black ink, appearing to read "Bradley Reimer", is written over a horizontal line.

Bradley Reimer
GC/MS Laboratory Senior Technical Specialist

Results in this certificate relate only to the samples as submitted to the laboratory.

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ALS Life Sciences

Sample Analysis Summary Report

Sample Name	W. VALLEY VIEW	NORTHRIDGE TERRACE
ALS Sample ID	L2565983-1	L2565983-2
Sample Size	0.97	1.06
Sample size units	L	L
Percent Moisture	n/a	n/a
Sample Matrix	Water	Water
Sampling Date	5-Mar-21	5-Mar-21
Extraction Date	1-Apr-21	1-Apr-21
Target Analytes	pg/L	pg/L
BDE 10	<0.13	<0.071
BDE 7	<0.58	<1.9
BDE 8/11	<2.2	9.51
BDE 12/13	2.39	11.4
BDE 15	2.29	8.33
BDE 30	<1.3	<1.5
BDE 32	<1.3	4.49
BDE 17/25	9.24	29.1
BDE 28/33	19.2	64.1
BDE 35	<9.5	<14
BDE 37	1.90	14.3
PBEB	2.76	4.85
HBB	9.67	7.97
BDE 75	<1.2	3.48
BDE 51	<3.8	12.1
BDE 49	39.0	101
BDE 71	2.36	9.07
BDE 47	430	933
BDE 79	<2.7	22.1
BDE 66	25.7	74.5
BDE 77	<0.70	14.6
BDE 100	94.7	235
BDE 119/120	2.20	14.0
BDE 99	482	1200
BDE 116	<0.56	3.65
BDE 83	<1.3	9.58
BDE 118	<3.9	38.0
BDE 85	17.6	42.7
BDE 126	<0.35	6.36
BDE 105	<0.37	<3.7
BDE 155	2.76	11.0
BDE 154	37.1	134
BDE 153	38.3	173
BDE 140	2.71	10.4
BDE 138/166	<5.7	<22
BDE 156	<3.6	5.39
BDE 128	<3.1	<7.6
BDE 184	<2.2	12.2
BDE 183	31.4	314
BDE 191	2.07	13.7
BDE 181	3.39	8.84
BDE 190	3.27	31.4
BDE 197	19.9	104
BDE 203	17.5	44.9
BDE 196	16.8	61.2
BDE 208	48.5	94.2
BDE 207	118	303
BDE 206	141	298
BDE 209	1880	2750
DBDPE	2500	6200
PBDE Homologue Group Totals (Sum of detected PBDEs including EMPCs)	pg/L	pg/L
Di BDE	7.46	31.1
Tri BDE	41.1	126
Tetra BDE	505	1170
Penta BDE	602	1550
Hexa BDE	80.9	363
Hepta BDE	42.3	380
Octa BDE	54.2	210
Nona BDE	308	695
Deca BDE	1880	2750
Total PBDEs	3520	7280
Extraction Standards	% Rec	% Rec
13C12 BDE 3		
13C12 BDE 15	100	77
13C12 BDE 28	102	91
13C6 HBB	91	81
13C12 BDE 47	102	96
13C12 BDE 77	42	96
13C12 BDE 100	91	177
13C12 BDE 99	91	171
13C12 BDE 126	81	134
13C12 BDE 154	58	63
13C12 BDE 153	76	58
13C12 BDE 183	80	75
13C12 BDE 197	57	65
13C12 BDE 207	74	76
13C12 BDE 209	70	43
13C14 DBDPE	98	63
Cleanup Standard		
13C12 BDE 138 Cleanup	64	87

ALS Life Sciences

Quality Control Summary Report

Sample Name	Method Blank	Laboratory Control Sample
ALS Sample ID	WG3501151-1	WG3501151-2
Sample Size	1.00	1
Sample size units	L	n/a
Percent Moisture	n/a	n/a
Sample Matrix	QC	QC
Sampling Date	n/a	n/a
Extraction Date	1-Apr-21	1-Apr-21
Target Analytes		
	pg/L	% Rec
BDE 10	<0.086	32
BDE 7	<0.079	54
BDE 8/11	<0.055	95
BDE 12/13	<0.056	79
BDE 15	<0.071	102
BDE 30	<0.24	67
BDE 32	<0.17	106
BDE 17/25	0.260	109
BDE 28/33	<0.67	104
BDE 35	<0.14	116
BDE 37	<0.14	122
PBEB	0.410	120
HBB	4.03	103
BDE 75	<0.12	105
BDE 51	<0.10	107
BDE 49	<0.47	107
BDE 71	<0.16	104
BDE 47	20.1	109
BDE 79	<0.093	121
BDE 66	<0.28	112
BDE 77	<0.088	102
BDE 100	3.33	103
BDE 119/120	<0.23	112
BDE 99	17.0	108
BDE 116	<0.38	73
BDE 83	<0.32	106
BDE 118	<0.26	103
BDE 85	<0.75	110
BDE 126	<0.15	107
BDE 105	<0.25	101
BDE 155	<0.21	103
BDE 154	<1.0	104
BDE 153	<1.2	105
BDE 140	<0.51	104
BDE 138/166	<0.87	99
BDE 156	<1.1	92
BDE 128	<0.98	96
BDE 184	<0.28	110
BDE 183	0.740	106
BDE 191	<0.60	100
BDE 181	<0.60	89
BDE 190	<0.89	88
BDE 197	<0.42	97
BDE 203	<0.88	97
BDE 196	1.30	99
BDE 208	<2.0	106
BDE 207	5.76	100
BDE 206	<5.6	103
BDE 209	51.4	99
DBDPE	<130	99
PBDE Homologue Group Totals		
(Sum of detected PBDEs including EMPCs)		
	pg/L	
Di BDE	0.127	
Tri BDE	0.930	
Tetra BDE	20.9	
Penta BDE	21.1	
Hexa BDE	2.20	
Hepta BDE	0.740	
Octa BDE	2.60	
Nona BDE	13.4	
Deca BDE	51.4	
Total PBDEs	113	
Extraction Standards		
	% Rec	% Rec
13C12 BDE 3		
13C12 BDE 15	68	62
13C12 BDE 28	76	64
13C6 HBB	73	56
13C12 BDE 47	82	63
13C12 BDE 77	95	68
13C12 BDE 100	77	73
13C12 BDE 99	81	79
13C12 BDE 126	71	72
13C12 BDE 154	54	76
13C12 BDE 153	73	72
13C12 BDE 183	67	76
13C12 BDE 197	68	73
13C12 BDE 207	65	77
13C12 BDE 209	58	63
13C14 DBDPE	65	65
Cleanup Standard		
13C12 BDE 138 Cleanup	75	73

ALS Life Sciences

Sample Analysis Report

Sample Name W. VALLEY VIEW
 ALS Sample ID L2565983-1
 Analysis Method EPA 1614
 Analysis Type Sample
 Sample Matrix Water

Sampling Date 5-Mar-21
 Extraction Date 1-Apr-21
 Sample Size 0.97 L
 Percent Moisture n/a
 Split Ratio 1

Approved:
 E. Sabljic
 --e-signature--
 20-Apr-2021

Run Information

Run 1

Filename 10-210419D13
 Run Date 19-Apr-21 22:37
 Final Volume 25 uL
 Dilution Factor 1
 Analysis Units pg/L
 Instrument - Column HRMS-10 DB5US0210111H

Run 2

Filename 10-210420A05
 Run Date 20-Apr-21 12:43
 Final Volume 25 uL
 Dilution Factor 10
 Analysis Units pg/L
 Instrument - Column HRMS-10 DB5US0210111H

Target Analytes

	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.13	0.13		U	26						
BDE 7	6.67	<0.58	0.12	M,J,R	0.58	26						
BDE 8/11	6.81	<2.2	0.085	J,R	2.2	52						
BDE 12/13	6.95	2.39	0.072	J		52						
BDE 15	7.10	2.29	0.060	J		26						
BDE 30							NotFnd	<1.3	1.3	U		260
BDE 32	8.33	<1.3	0.12	J,R	1.3	26						
BDE 17/25	8.46	9.24	0.15	M,J		52						
BDE 28/33	8.69	19.2	0.14	J		52						
BDE 35	8.82	<9.5	0.098	J,R	9.5	26						
BDE 37	9.04	1.90	0.097	J		26						
PBEB	9.07	2.76	0.22	J,B		26						
HBB	10.37	9.67	0.36	M,J,B		26						
BDE 75	10.11	<1.2	0.51	J,R	1.2	26						
BDE 51	10.18	<3.8	0.45	J,R	3.8	26						
BDE 49	10.28	39.0	0.66	M		26						
BDE 71	10.34	2.36	0.69	M,J		26						
BDE 47	10.62	430	0.31	M		26						
BDE 79							10.70	<2.7	0.42	M,J,R	2.7	260
BDE 66	10.93	25.7	0.70	M,J		26						
BDE 77	NotFnd	<0.70	0.70	U		26						
BDE 100	12.40	94.7	0.17			39						
BDE 119/120	12.58	2.20	0.34	J		39						
BDE 99	12.87	482	0.23	M		39						
BDE 116	NotFnd	<0.56	0.56	U		39						
BDE 83	13.20	<1.3	0.47	M,J,R	1.3	39						
BDE 118	13.27	<3.9	0.38	M,J,R	3.9	39						
BDE 85	13.77	17.6	0.32	M,J		39						
BDE 126	13.91	<0.35	0.21	M,J,R	0.35	39						
BDE 105	NotFnd	<0.37	0.37	U		39						
BDE 155	13.91	2.76	0.37	J		52						
BDE 154							14.21	37.1	1.6	M,J		520
BDE 153	15.02	38.3	1.3	J		52						
BDE 140	15.47	2.71	1.6	J		52						
BDE 138/166							NotFnd	<5.7	5.7	U		1000
BDE 156	NotFnd	<3.6	3.6	U		52						
BDE 128	NotFnd	<3.1	3.1	U		52						
BDE 184	16.79	<2.2	0.55	M,J,R	2.2	64						
BDE 183	17.15	31.4	0.79	J		64						
BDE 191	17.75	2.07	1.2	M,J		64						
BDE 181	18.29	3.39	1.2	M,J		64						
BDE 190	18.45	3.27	1.8	M,J		64						
BDE 197	19.58	19.9	1.3	J		64						
BDE 203	19.82	17.5	1.7	J		64						
BDE 196	19.94	16.8	1.6	J		64						
PBB 194												
BDE 208	21.21	48.5	3.7	J		130						
BDE 207	21.34	118	3.3	J		130						
BDE 206	21.63	141	3.8			130						
BDE 209	23.42	1880	4.5			130						
DBDPE	24.95	2500	7.3			260						

Extraction Standards	pg	% Rec	Limits	% Rec
13C12 BDE 3	1000			
13C12 BDE 15	1000	7.09	100 25-150	
13C12 BDE 28	1000	8.69	102 25-150	
13C6 HBB	1000	10.36	91 25-150	
13C12 BDE 47	1000	10.62	102 25-150	
13C12 BDE 77	1000	11.43	42 25-150	
13C12 BDE 100	1000	12.38	91 25-150	
13C12 BDE 99	1000	12.87	91 25-150	
13C12 BDE 126	1000	13.91	81 25-150	
13C12 BDE 154	1000			14.20 58
13C12 BDE 153	1000	15.01	76 25-150	
13C12 BDE 183	1000	17.14	80 25-150	
13C12 BDE 197	2000	19.58	57 25-150	
13C12 BDE 207	5000	21.33	74 25-150	
13C12 BDE 209	5000	23.41	70 20-200	
13C14 DBDPE	10000	24.94	98 5-200	

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	15.96	64 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Sample Analysis Report

Sample Name NORTHBRIDGE TERRACE
ALS Sample ID L2565983-2
Analysis Method EPA 1614
Analysis Type Sample
Sample Matrix Water

Sampling Date 5-Mar-21
Extraction Date 1-Apr-21
Sample Size 1.06 L
Percent Moisture n/a
Split Ratio 1

Approved:
E. Sabljic
 --e-signature--
 20-Apr-2021

Run Information

Run 1

Filename 10-210419D14
Run Date 19-Apr-21 23:12
Final Volume 25 uL
Dilution Factor 1
Analysis Units pg/L
Instrument - Column HRMS-10 DB5US0210111H

Run 2

Filename 10-210420A08
Run Date 20-Apr-21 14:28
Final Volume 25 uL
Dilution Factor 10
Analysis Units pg/L
Instrument - Column HRMS-10 DB5US0210111H

Target Analytes	Ret.	Conc.	EDL	EMPC	LQL	Ret.	Conc.	EDL	EMPC	LQL	
	Time	pg/L	pg/L	Flags		pg/L	Time	pg/L	pg/L		Flags
BDE 10	NotFnd	<0.071	0.071	U	24						
BDE 7	6.67	<1.9	0.066	M,J,R	1.9	24					
BDE 8/11	6.80	9.51	0.046	J		47					
BDE 12/13	6.94	11.4	0.039	J		47					
BDE 15	7.07	8.33	0.033	J		24					
BDE 30						NotFnd	<1.5	1.5	U	240	
BDE 32	8.25	4.49	0.49	J		24					
BDE 17/25	8.39	29.1	0.61	J		47					
BDE 28/33	8.64	64.1	0.57			47					
BDE 35	8.79	<14	0.39	J,R	14	24					
BDE 37	8.98	14.3	0.39	J		24					
PBEB	9.01	4.85	0.10	J		24					
HBB	10.02	7.97	0.26	J,B		24					
BDE 75	10.07	3.48	0.066	J		24					
BDE 51	10.15	12.1	0.057	J		24					
BDE 49	10.23	101	0.085			24					
BDE 71	10.31	9.07	0.088	J		24					
BDE 47	10.58	933	0.061	M		24					
BDE 79						10.74	22.1	1.3	M,J	240	
BDE 66	10.88	74.5	0.089			24					
BDE 77	11.36	14.6	0.051	J		24					
BDE 100	12.26	235	0.12			35					
BDE 119/120	12.43	14.0	0.28	J		35					
BDE 99	12.78	1200	0.18	M		35					
BDE 116	12.94	3.65	0.45	M,J		35					
BDE 83	13.12	9.58	0.38	J		35					
BDE 118	13.19	38.0	0.30	M		35					
BDE 85	13.69	42.7	0.26			35					
BDE 126	13.86	6.36	0.19	J		35					
BDE 105	14.02	<3.7	0.30	M,J,R	3.7	35					
BDE 155	13.85	11.0	0.45	J		47					
BDE 154						14.25	134	1.5	J	470	
BDE 153	14.99	173	3.6			47					
BDE 140	15.44	10.4	2.2	J		47					
BDE 138/166						15.95	<22	8.4	J,R	22	940
BDE 156	16.34	5.39	5.0	J		47					
BDE 128	16.98	<7.6	4.3	J,R	7.6	47					
BDE 184	16.78	12.2	0.63	J		59					
BDE 183	17.15	314	0.90			59					
BDE 191	17.72	13.7	1.4	J		59					
BDE 181	18.29	8.84	1.4	J		59					
BDE 190	18.46	31.4	2.0	J		59					
BDE 197	19.57	104	0.97			59					
BDE 203	19.81	44.9	1.3	J		59					
BDE 196	19.93	61.2	1.2			59					
PBB 194											
BDE 208	21.20	94.2	3.3	J		120					
BDE 207	21.33	303	3.0			120					
BDE 206	21.61	298	3.5			120					
BDE 209	23.40	2750	7.7			120					
DBDPE	24.92	6200	10			240					

Extraction Standards	pg	% Rec	Limits	% Rec	
13C12 BDE 3	1000				
13C12 BDE 15	1000	7.07	77 25-150		
13C12 BDE 28	1000	8.64	91 25-150		
13C6 HBB	1000	10.01	81 25-150		
13C12 BDE 47	1000	10.57	96 25-150		
13C12 BDE 77	1000	11.35	96 25-150		
13C12 BDE 100	1000	12.25	177 25-150		
13C12 BDE 99	1000	12.77	171 25-150		
13C12 BDE 126	1000	13.85	134 25-150		
13C12 BDE 154	1000			14.23	63
13C12 BDE 153	1000	14.99	58 25-150		
13C12 BDE 183	1000	17.14	75 25-150		
13C12 BDE 197	2000	19.57	65 25-150		
13C12 BDE 207	5000	21.32	76 25-150		
13C12 BDE 209	5000	23.39	43 20-200		
13C14 DBDPE	10000	24.91	63 5-200		

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	15.94	87 30-135

EDL Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M Indicates that a peak has been manually integrated.
 U Indicates that this compound was not detected above the EDL.
 J Indicates that a target analyte was detected below the calibrated range.
 R Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 B Indicates that this target was detected in the blank at greater than 10% of the sample concentration.
 EMPC Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Method Blank Analysis Report

Sample Name
ALS Sample ID
Analysis Method
Analysis Type
Sample Matrix

Method Blank
WG3501151-1
EPA 1614
Blank
QC

Sampling Date
Extraction Date
Sample Size
Percent Moisture
Split Ratio

n/a
1-Apr-21
1.00
n/a
1

Approved:
E. Sabljic
--e-signature--
20-Apr-2021

Run Information

Run 1

Filename: 10-210419D11
Run Date: 19-Apr-21 21:28
Final Volume: 25 uL
Dilution Factor: 1
Analysis Units: pg/L
Instrument - Column: HRMS-10 DB5US0210111H

Target Analytes	Ret. Time	Conc. pg/L	EDL pg/L	Flags	EMPC pg/L	LQL
BDE 10	NotFnd	<0.086	0.086	U		25
BDE 7	NotFnd	<0.079	0.079	U		25
BDE 8/11	NotFnd	<0.055	0.055	U		50
BDE 12/13	6.93	<0.056	0.047	M,J,R	0.056	50
BDE 15	7.06	<0.071	0.039	M,J,R	0.071	25
BDE 30	NotFnd	<0.24	0.24	U		25
BDE 32	NotFnd	<0.17	0.17	U		25
BDE 17/25	8.39	0.260	0.21	M,J		50
BDE 28/33	8.64	<0.67	0.20	M,J,R	0.67	50
BDE 35	NotFnd	<0.14	0.14	U		25
BDE 37	NotFnd	<0.14	0.14	U		25
PBEB	9.01	0.410	0.12	M,J		25
HBB	10.01	4.03	0.11	J		25
BDE 75	NotFnd	<0.12	0.12	U		25
BDE 51	NotFnd	<0.10	0.10	U		25
BDE 49	10.23	<0.47	0.15	M,J,R	0.47	25
BDE 71	NotFnd	<0.16	0.16	U		25
BDE 47	10.57	20.1	0.12	J		25
BDE 79	NotFnd	<0.093	0.093	U		25
BDE 66	10.87	<0.28	0.16	M,J,R	0.28	25
BDE 77	NotFnd	<0.088	0.088	U		25
BDE 100	12.25	3.33	0.11	J		38
BDE 119/120	NotFnd	<0.23	0.23	U		38
BDE 99	12.76	17.0	0.15	J		38
BDE 116	NotFnd	<0.38	0.38	U		38
BDE 83	NotFnd	<0.32	0.32	U		38
BDE 118	NotFnd	<0.26	0.26	U		38
BDE 85	13.68	<0.75	0.22	M,J,R	0.75	38
BDE 126	NotFnd	<0.15	0.15	U		38
BDE 105	NotFnd	<0.25	0.25	U		38
BDE 155	NotFnd	<0.21	0.21	U		50
BDE 154	14.21	<1.0	0.29	J,R	1.0	50
BDE 153	14.97	<1.2	0.49	J,R	1.2	50
BDE 140	NotFnd	<0.51	0.51	U		50
BDE 138/166	NotFnd	<0.87	0.87	U		100
BDE 156	NotFnd	<1.1	1.1	U		50
BDE 128	NotFnd	<0.98	0.98	U		50
BDE 184	NotFnd	<0.28	0.28	U		63
BDE 183	17.08	0.740	0.40	M,J		63
BDE 191	NotFnd	<0.60	0.60	U		63
BDE 181	NotFnd	<0.60	0.60	U		63
BDE 190	NotFnd	<0.89	0.89	U		63
BDE 197	19.51	<0.42	0.40	M,J,R	0.42	63
BDE 203	19.77	<0.88	0.54	M,J,R	0.88	63
BDE 196	19.91	1.30	0.50	M,J		63
PBB 194						
BDE 208	21.17	<2.0	0.49	J,R	2.0	130
BDE 207	21.30	5.76	0.45	J		130
BDE 206	21.57	<5.6	0.51	J,R	5.6	130
BDE 209	23.35	51.4	0.88	J		130
DBDPE	24.85	<130	1.6	J,R	130	250

Extraction Standards	pg	% Rec	Limits
13C12 BDE 3	1000		
13C12 BDE 15	1000	7.06	68 25-150
13C12 BDE 28	1000	8.63	76 25-150
13C6 HBB	1000	10.01	73 25-150
13C12 BDE 47	1000	10.57	82 25-150
13C12 BDE 77	1000	11.34	95 25-150
13C12 BDE 100	1000	12.23	77 25-150
13C12 BDE 99	1000	12.76	81 25-150
13C12 BDE 126	1000	13.84	71 25-150
13C12 BDE 154	1000	14.21	54 25-150
13C12 BDE 153	1000	14.95	73 25-150
13C12 BDE 183	1000	17.09	67 25-150
13C12 BDE 197	2000	19.51	68 25-150
13C12 BDE 207	5000	21.28	65 25-150
13C12 BDE 209	5000	23.34	58 20-200
13C14 DBDPE	10000	24.84	65 5-200

Cleanup Standard	pg	% Rec	Limits
13C12 BDE 138 Cleanup	2000	15.91	75 30-135

EDL: Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.
 LQL: Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.
 M: Indicates that a peak has been manually integrated.
 U: Indicates that this compound was not detected above the EDL.
 J: Indicates that a target analyte was detected below the calibrated range.
 R: Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.
 EMPC: Estimated Maximum Possible Concentration - elevated detection limit due to interference or positive id criterion failure

ALS Life Sciences

Laboratory Control Sample Analysis Report

Sample Name	Laboratory Control Sample	Sampling Date	n/a	
ALS Sample ID	WG3501151-2	Extraction Date	1-Apr-21	Approved: E. Sabljic --e-signature-- 20-Apr-2021
Analysis Method	EPA 1614	Sample Size	1	
Analysis Type	LCS	Percent Moisture	n/a	
Sample Matrix	QC	Split Ratio	1	

Run Information	Run 1
Filename	10-210419D08
Run Date	19-Apr-21 19:44
Final Volume	25 uL
Dilution Factor	1
Analysis Units	%
Instrument - Column	HRMS-10 DB5US0210111H

Target Analytes	pg	Ret.		Limits	Flags
		Time	% Rec		
BDE 10	400	6.32	32	5-130	
BDE 7	400	6.68	54	5-130	
BDE 8/11	800	6.84	95	50-150	
BDE 12/13	800	6.96	79	5-130	
BDE 15	400	7.10	102	50-150	
BDE 30	400	7.78	67	5-130	
BDE 32	400	8.25	106	50-150	
BDE 17/25	800	8.42	109	50-150	
BDE 28/33	800	8.66	104	50-150	
BDE 35	400	8.82	116	50-150	
BDE 37	400	9.01	122	50-150	
PBEB	400	9.03	120	50-150	
HBB	400	10.03	103	50-150	
BDE 75	400	10.07	105	50-150	
BDE 51	400	10.15	107	50-150	
BDE 49	400	10.25	107	50-150	
BDE 71	400	10.32	104	50-150	
BDE 47	400	10.58	109	50-150	
BDE 79	400	10.74	121	50-150	
BDE 66	400	10.87	112	50-150	
BDE 77	400	11.35	102	50-150	
BDE 100	600	12.25	103	50-150	
BDE 119/120	1200	12.42	112	50-150	
BDE 99	600	12.76	108	50-150	
BDE 116	600	12.92	73	40-140	
BDE 83	600	13.04	106	50-150	
BDE 118	600	13.17	103	50-150	
BDE 85	600	13.66	110	50-150	
BDE 126	600	13.82	107	50-150	
BDE 105	600	13.99	101	50-150	
BDE 155	800	13.82	103	50-150	
BDE 154	800	14.20	104	50-150	
BDE 153	800	14.94	105	50-150	
BDE 140	800	15.41	104	50-150	
BDE 138/166	1600	15.90	99	50-150	
BDE 156	800	16.27	92	50-150	
BDE 128	800	16.91	96	50-150	
BDE 184	1000	16.72	110	50-150	
BDE 183	1000	17.08	106	50-150	
BDE 191	1000	17.64	100	50-150	
BDE 181	1000	18.19	89	50-150	
BDE 190	1000	18.34	88	50-150	
BDE 197	1000	19.53	97	50-150	
BDE 203	1000	19.77	97	50-150	
BDE 196	1000	19.89	99	50-150	
PBB 194	800				
BDE 208	2000	21.17	106	50-150	
BDE 207	2000	21.30	100	50-150	
BDE 206	2000	21.58	103	50-150	
BDE 209	2000	23.35	99	40-200	
DBDPE	4000	24.86	99	40-200	
Extraction Standards	pg		% Rec	Limits	
13C12 BDE 3	1000				
13C12 BDE 15	1000	7.09	62	25-150	
13C12 BDE 28	1000	8.66	64	30-140	
13C6 HBB	1000	10.03	56	30-140	
13C12 BDE 47	1000	10.57	63	30-140	
13C12 BDE 77	1000	11.34	68	30-140	
13C12 BDE 100	1000	12.23	73	30-140	
13C12 BDE 99	1000	12.74	79	30-140	
13C12 BDE 126	1000	13.81	72	30-140	
13C12 BDE 154	1000	14.20	76	30-140	
13C12 BDE 153	1000	14.93	72	30-140	
13C12 BDE 183	1000	17.07	76	30-140	
13C12 BDE 197	2000	19.51	73	30-140	
13C12 BDE 207	5000	21.30	77	30-140	
13C12 BDE 209	5000	23.34	63	20-200	
13C14 DBDPE	10000	24.85	65	5-200	
Cleanup Standard	pg				
13C12 BDE 138 Cleanup	2000	15.90	73	40-125	