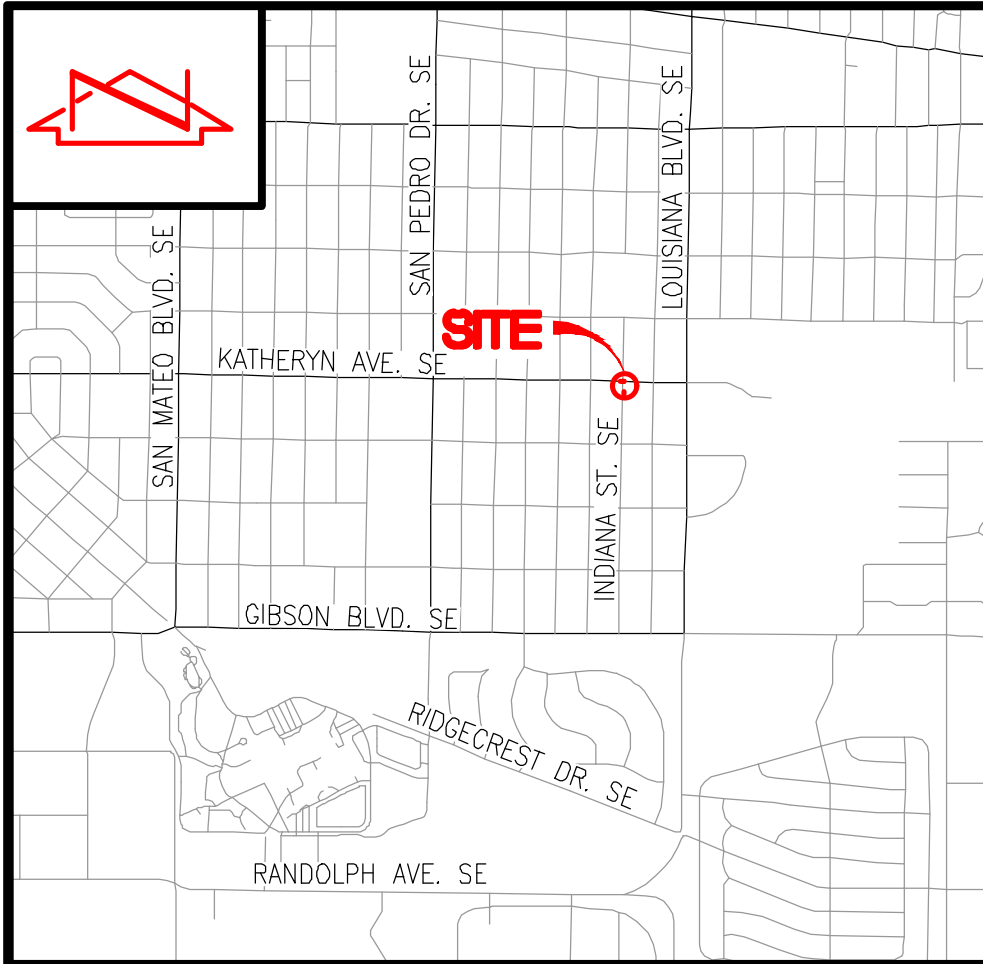


Appendix F

Well Survey



VICINITY MAP L-18
NOT TO SCALE



GENERAL NOTES

1. AN UNCLASSIFIED SURVEY FOR WELL LOCATIONS WAS PERFORMED ON MAY 26, 2022, THIS IS NOT A BOUNDARY SURVEY.
2. WELL LOCATIONS ARE NAD 83 GRID COORDINATES (NEW MEXICO CENTRAL ZONE 3001). ELEVATIONS ARE NAVD 88 VERTICAL DATUM.
3. THIS SURVEY HAS BEEN PREPARED BASED UPON NAVD 88 DATUM. PREVIOUS SURVEYS OF THIS AREA CONDUCTED BY OTHER CONSULTANTS MAY HAVE BEEN CONDUCTED BASED UPON NGVD 29 DATUM. SPECIAL CARE SHOULD BE EXERCISED WHEN COMPARING ELEVATIONS FROM THIS SURVEY TO CURRENT AND PREVIOUS SURVEYS, PLANS AND AS-BUILT DOCUMENTS.
4. SITE LOCATED WITHIN SECTION 25, TOWNSHIP 10 NORTH, RANGE 3 EAST, N.M.P.M..
5. THE PHOTOBASED IMAGE, DEPICTED ON THIS SURVEY, WAS IMPORTED FROM MRCOG. THIS PHOTOBASE IMAGE IS SHOWN TO PROVIDE A GENERAL SITE ORIENTATION AND MAY NOT REFLECT THE CURRENT SITE CONDITIONS.
6. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH NEW MEXICO STATE PLANE GRID COORDINATES AND ELEVATIONS FOR THE LOCATIONS OF THE EXISTING, OBSERVED MONITORING WELLS.

CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT THE SITE ON APRIL 17, 2008 AND VERIFIED ON MAY 26, 2022. CONTROL WAS PROJECTED ONTO THE SUBJECT SITE UTILIZING RTK GPS OBSERVATIONS COMBINED WITH GEOID 12B (CONUS) TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS BASED UPON NAD83/NAVD 88 DATUM. THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY. AN NMSHC BENCHMARK (G-2) IN THE VICINITY OF THE PROJECT WAS OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. THE COORDINATES LISTED BELOW ARE GRID COORDINATES:

LATITUDE: N35°03'29.55211", LONGITUDE: W106°34'08.48412", ELLIPSOID HEIGHT 1605.871 METERS.

ELEVATIONS SHOWN HAVE BEEN QUALITY CONTROLLED BASED UPON USGS PROVISIONAL CONTROL DATA BY PERFORMANCE OF A CLOSED SPIRIT LEVEL LOOPS BETWEEN EXISTING KAFB WELLS.

PROJECT BENCHMARK: G-2

AN NMSHC CONTROL MONUMENT BRASS CAP SET IN CONCRETE STAMPED "STA. G-2". THE STATION IS LOCATED IN THE CENTER OF THE WESTERN ISLAND OF THE INTERSECTION OF GIBSON BLVD S.E. AND LOUISIANA BLVD S.E. ELEVATION = 5337.43 FEET (NAVD 1988)

CONTROL COORDINATE TABLE

POINT NO.	NORTHING--GRID	EASTING--GRID	ELEVATION	DESCRIPTION	LATITUDE--NORTH	LONGITUDE--WEST	Y--METER	X--METER	Z--METER
	1476630.47	1544945.86	5337.43	G-2(Project Benchmark)	35°03'29.55211"	106°34'08.48412"	450077.868	470900.438	1626.849

WELL COORDINATE TABLE (ABCWUA DATA GAP WELL)

WELL	POINT NO.	NORTHING--GRID	EASTING--GRID	ELEVATION	DESCRIPTION	LATITUDE--NORTH	LONGITUDE--WEST	Y--METER	X--METER	Z--METER
ABCWUA DATA GAP	52622011	1479210.657	1544391.936	5328.542	MW-01 WELL CASING	35°03'55.05633"	-106°34'15.24736"	450864.310	470731.604	1624.143
	52622012	1479211.146	1544391.904	5328.855	MW-01 WELL LID	35°03'55.06117"	-106°34'15.24777"	450864.459	470731.594	1624.238
	52622013	1479211.781	1544391.910	5328.810	MW-01 CONCRETE	35°03'55.06745"	-106°34'15.24773"	450864.653	470731.595	1624.225
	52622014	1479212.095	1544391.909	5328.839	MW-01 ASPHALT	35°03'55.07055"	-106°34'15.24775"	450864.748	470731.595	1624.233

SURVEYORS CERTIFICATION

I, JOSEPH M. SOLOMON, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 15075, DO HEREBY CERTIFY; THAT THIS UNCLASSIFIED SURVEY AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Joseph M. Solomon, Jr.
JOSEPH M. SOLOMON, JR., NMPS 15075

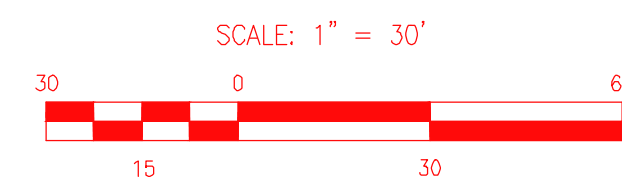


September 08, 2022
DATE

File Name: P:\data\2022\2022.008\1\SUR\20220081_INTERA_WELL_SURVEY.dwg - HMC5-D Plot Date: 9/8/22 Plot Time: 07:11



6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109
Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com



**UNCLASSIFIED SURVEY--WELL LOCATION SURVEY
INTERA ABCWUA DATA GAP WELL**

SURVEYED BY	NO.	DATE	BY	REVISIONS		JOB NO.
				DATE	DESCRIPTION	
M.V.Z.						2022.008.1
E.E.S.						09-2022
J.M.S.						SHEET 1 OF 1

Appendix G

Groundwater Sampling Field Forms

DAY 1



PROJECT NAME: Data Gap Well WELL NO.: WUABFFMWD1
PROJECT NO.: _____ DATE: 5/25/22 FIELD CREW: VP/BA

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)
0857	597'	452.89'	144.11

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)
3"	0.38	54.8	—	164.3

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Bennett Pump → low flow/3 casing vol removal
METHOD OF SAMPLING: Bennett Pump

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
Geotech 2000'	INTERAS	NA	BA	
YSI Pro Plus	Inkas	0730	BA	

WATER QUALITY READINGS DURING PURGING

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	DO (mg/L) Water level ft BTDC	ORP (mV)	Total Purge Volume (gal)	Comments (color/odor)
1217					452.90			
1225	21.9	8.09	318.9	—	550	12.1	~3.16	clear
1245	22.9	7.89	305.6	3.88	452.90	-48.9	~5.86	clear
1315	21.3	7.78	309.1	2.46	452.91	-102.1	~9.76	clear, wk to no odor.
1345	22.3	8.17	308.3	1.91	452.85	-116.8	~13.66	clear
1415	22.2	8.23	310.6	2.02	452.88	-130.0	~17.56	clear
1445	22.3	8.11	306.5	1.45	452.89	-138.0	~21.46	"
1515	22.9	8.13	306.7	1.73	452.88	-138.5	~25	"
1545	21.7	8.16	304.2	1.23	452.87	-145.2	~29	"
1615	21.7	8.07	302.8	1.05	452.85	-149.3	~33	Clear, wk odor
1645	22.0	8.04	306.9	0.94	452.85	-151.6	~37	Clear, wk odor
1715	21.7	8.08	309.1	0.88	452.82	-155.3	~41	Clear, wk odor
1745	21.8	8.08	309.0	0.79	452.83	-156.0	~45	Cl, weak odor
1815	22.3	8.02	311.8	0.88	452.82	-156.3	~49	clear, no odor

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

500 mL/min =
0.13 gal/min

Flow Rate
gal/min

0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13
0.13

no odor.

Clear, wk odor
Clear, wk odor
Clear, wk odor
Cl, weak odor
clear, no odor

WATER QUALITY READINGS DURING PURGING (continued)

Flow Rate
(gal/min)
0.13
0.13
0.13
0.13

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	WL DO (mg/L) (ft BTOL)	ORP (mV)	Total Volume Purged (gal)	Comments (color/odor)
1845	21.8	7.97	313.9	1.18	452.85	-154.8	~53	clear, no odor
1915	21.1	7.96	309.7	0.67	452.83	-155.7	~57	clear, no odor
1945	20.7	7.95	309.6	0.64	452.82	-155.0	~61	clear, no odor
1815	20.3	7.94	311.4	0.80	452.84	-154.11	~65	clear, no odor
* Will continue Tomorrow *								

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

GROUNDWATER SAMPLING DATA

GROUNDWATER SAMPLE ID: _____ DUPLICATE SAMPLE ID: _____

Time	Bottle Type	Analytical Method	# of Bottles	Volume	Preservative
TOTAL:					

Sampler: _____
(Printed Name) (Signature)

1 DAY 2



PROJECT NAME: Data Gap Well WELL NO.: WUABFFMW01
 PROJECT NO.: _____ DATE: 5/26/22 FIELD CREW: LP/BA

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)
	597	452.89'	144.11

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)
3"	0.38	54.90		164.3

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Bennett Pump → low flow / 3 CV removed
 METHOD OF SAMPLING: Bennett Pump

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>Geotech 2000'</u>	<u>INTERA</u>	—	BA	
<u>YSI Pro Plus</u>	<u>INTERA</u>	0710	BA	

WATER QUALITY READINGS DURING PURGING

Running in 65 gal removed from yesterday

TIME	TEMP* (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	DO (mg/L) <small>ft BTDC</small>	ORP (mV)	Total Purge Volume (gal)	Comments (color/odor)
0820								Start Air Compressor / Pump → Start dialing in the flow rate
0830	19.4	7.98	300.5	61.3*	70	144.1	70	cloudy (liquinox?).
0900	21.6	7.97	304.5	2.06	452.99	74.0	~72	clear, no odor
0930	21.5	8.00	310.3	1.52	452.99	-6.2	~75	clear, wk odor.
1000	22.0	8.00	311.2	0.96	453.00	-103.8	~78	clear
1030	22.0	8.06	237.9*	0.98	453.01	-126.2	~81	clear *YSI chord.
1100	22.4	8.03	315.4	0.79	453.03	-120.9	~83	clear
1130	22.8	7.99	317.5	0.81	453.03	-140.4	~88	clear
1200	23.1	7.98	316.5	0.75	453.01	-141.5	~92	clear
1230	23.4	7.98	315.6	0.75	453.00	-140.8	~96	clear
1300	23.0	7.99	316.3	0.67	453.00	-142.2	~100	clear
1330	23.6	8.01	314.4	0.73	452.98	-141.5	~104	clear
1400	23.5	7.99	313.4	0.81	452.96	-143.4	~108	clear
1430	23.4	7.99	316.2	0.78	452.99	-144.8	~112	clear.

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

WATER QUALITY READINGS DURING PURGING (continued)

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	W _L ft DO (mg/L) BTOC	ORP (mV)	Total Volume Purged (gal)	Comments (color/odor)
1500	23.5	7.75	317.8	1.2	452.98	-145.5	~115	clear
1530	23.3	7.77	315.6	1.0	452.99	-149.1	~119	clear
1600	23.3	7.77	316.0	0.83	453.0	-149.1	~125	clear. wk odor.
1630	23.3	7.98	316.9	0.72	452.94	-150.2	~128	clear wk odor
1700	23.3	8.02	312.8	0.8?	452.91	-151.0	~131	"
1730	22.5	8.07	311.3	1.35	452.91	-151.9	~134	"
1800	22.7	8.05	309.5	0.80	452.90	-153.2	~138	"
1830	22.4	8.08	314.4	0.70	452.90	-156.3	~141	clear.
1700	21.8	8.07	314.9	0.72	452.91	-157.6	~145	clear
1930	21.3	8.07	313.6	0.64	452.90	-158.5	~149	clear

*If measured.
 Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

GROUNDWATER SAMPLING DATA

GROUNDWATER SAMPLE ID: _____ DUPLICATE SAMPLE ID: _____

Time	Bottle Type	Analytical Method	# of Bottles	Volume	Preservative
TOTAL:					

Sampler: _____
 (Printed Name) (Signature)

1 DAY 3

PROJECT NAME: Data Gap Well WELL NO.: WUA08FFMW01
PROJECT NO.: _____ DATE: 5/27/22 FIELD CREW: LP/BA

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)
	597	1452.9	

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)
3	0.38	—	—	164.3

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Bennett Pump Low Flow
METHOD OF SAMPLING: Bennett Pump Low Flow

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
YSI Pro Plus		0730	BA	
HACH 2100 Q		0730	BA	

WATER QUALITY READINGS DURING PURGING ^{WT (BTOC)} Vol from yesterday = ~149

Flow Rate
(gal/min)

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	DO (mg/L)	ORP (mV)	Total Purge Volume (gal)	Comments (color/odor)	
0803	Compressor on - start dialing in flow rate								
0806	Water is at top surface								
0.13 0809	22.0	7.60	308.2	72.5	453.02	125.0	~149	slightly cloudy	
0815	21.3	7.83	305.1	21.4	453.02	98.9	~153	slightly cloudy.	
0.13 0830	21.4	7.80	301.9	12.3	453.01	70.4	~153	slightly cloudy to clear.	
" 0845	22.1	7.87	303.5	2.59	453.00	43.2	~155	Clear	
" 0900	21.9	7.86	308.3	1.80	453.01	-39.3	~157	Clear	
" 0915	22.5	7.87	307.2	1.00	453.01	-83.11	~159	Clear	
" 0930	22.3	7.89	306.3	0.86	453.02	-105.6	~161	clear	
0.13 0945	22.4	7.84	305.2	0.84	453.04	-118.7	~163	clear	
0.13 1000	23.0	7.85	307.0	0.72	453.03	-119.8	~165	clear.	

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

WATER QUALITY READINGS DURING PURGING (continued)

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	DO (mg/L)	ORP (mV)	Total Volume Purged (gal)	Comments (color/odor)

BA

*If measured.
Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

GROUNDWATER SAMPLING DATA

GROUNDWATER SAMPLE ID: WVA-BFFMW01 DUPLICATE SAMPLE ID: _____

Time	Bottle Type	Analytical Method	# of Bottles	Volume	Preservative
1015	3VOA	8260	3	40 mL	H2L
1015	2VOA	504.1	2	40 mL	SO TH
1015	1LAM	870	1	1L	None
1015	Plas	Total Metals	1	250 mL	HNO3
1015	Plas	Diss Metal	1	125 mL	HNO3 (filtered)
1015	Plas	Anions 300	1	125 mL	H2SO4
1015	Plas	Alkalinity	1	500 mL	None
+ TRIP BLANK for VOCs & EDB					
TOTAL:			9		

Sampler: Lynda Price Lynda Price
(Printed Name) (Signature)

1 DAY 1

PROJECT NAME: Data Gap Well WELL NO.: WUA-BFFMW01
PROJECT NO.: ABCWUA.007 DATE: 8/29/22 FIELD CREW: BA/LP

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)
1052	597'	455.63	141.37

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)
3"	0.38	53.72		161.16

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Bennett Pump → low flow (<500 mL/min) & 3 CV removal
METHOD OF SAMPLING: Bennett Pump

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

1 L = 0.264 gal or 3.785 L = 1 gal

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
Solinst Interface	model 122	NA		
YSI 1030	Interas	0900	BA	
HACH Turbidity Meter	INTERAS	0900	BA	

WATER QUALITY READINGS DURING PURGING

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	Water Level DO (mg/L) ff BTDC	Flow Rate gal/min OR (mV) gal/min	Total Purge Volume (gal)	Comments (color/odor)
1220	Compressor on							
1231	Water at surface, start dialing in ~500 mL/min or 0.13 gal/min							
1238	23.8	7.66	344.0	2.09	455.68	0.13	0.911	
1300	25.0	7.76	352.3	1.88	455.66	0.13	3.86	
1330	22.0	7.66	358.7	0.90	455.67	0.13	7.76	Clear.
1400	22.0	7.73	345.1	0.66	455.67	0.13	11.66	
1430	21.8	7.70	334.6	1.14	455.66	0.13	20*	* Tote lines
1500	22.8	7.74	335.4	0.68	455.64	0.13	24	
1530	22.2	7.81	328.0	0.75	455.64	0.13	27	
1600	21.8	7.86	327.1	0.71	455.65	0.13	31	Clear.
1630	22.0	7.81	323.9	0.72	455.63	0.13	38	
1700	22.2	7.88	329.1	0.53	455.6	0.13	41.5	"
1730	22.3	7.81	326.2	0.62	455.67	0.13	45.4	
1800	22.2	7.86	324.6	0.62	455.63	0.13	49.3	"

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

DAY 2

PROJECT NAME: Data Gap Well 2n GWS WELL NO.: WUABFFMWO1
PROJECT NO.: _____ DATE: 8/30/22 FIELD CREW: S. Archuleta

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)

See Day 1
Form

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Low Flow Bennett Pump
METHOD OF SAMPLING: _____

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
YSI Pro 1030		0745	BA	
HACH 2100Q		0745	BA	
Solinst Interface		0745	BA	

WATER QUALITY READINGS DURING PURGING

Start pump

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	WZ DO (mg/L) FT BTOC	Estimated Flow Rate ORP (mV) gen	Running Total Purge Volume (gal)	Comments (color/odor)
0820	22.8	7.79	316.2	—	455.93	0.8	50	milky.
0900	20.8	7.72	326.5	0.50	455.69	0.13	54	clear
1000	20.8	7.73	327.4	0.61	455.64	0.13	61	clear
1100	21.3*	7.79	325.2	0.50	455.63	0.13	70	skewed pump rate slightly
1230	24.4*	7.76	330.5	0.57	455.84	0.13	80	Generator 15% out.
1400	20.6	7.73	327.6	0.56	455.72	0.13	90	
1500	20.2	7.70	318.4	0.53	455.64	0.13	99	clear.
1600	20.3	7.86	321.4	0.48	455.65	0.13	110	clear.
1700	20.4	7.77	323.6	0.61	455.63	0.13	118	clear

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

1 DAY 3

PROJECT NAME: Data Gap Well GWSampling WELL NO.: Data Gap Well
PROJECT NO.: _____ DATE: 8/31/22 FIELD CREW: B. Archuleta

WUA BFF MW01

WATER LEVEL AND WATER COLUMN HEIGHT

TIME	DEPTH TO BOTTOM OF WELL (DTB) (ft btoc)	DEPTH TO WATER (DTW) (ft btoc)	Water Column Height (DTB-DTW) (ft)
0802		455.97	

ft btoc: feet below top of casing from designated measuring point

PURGE VOLUME

Well Casing Diameter (inches)	Volume/Linear Foot (see conversion table below)	1 Well Volume (gal)	2 Well Volumes (gal)	3 Well Volumes (gal)

** see Day 1 Form*

VOLUME/LINEAR FOOT (gal/ft) (Use well casing ID)

1" = 0.04	1.5" = 0.09	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.5	8" = 2.6	10" = 4.1
-----------	-------------	-----------	-----------	-----------	----------	----------	-----------

1 well casing volume = Volume/Linear Foot x Water Column Height

METHOD OF PURGING: Bennett Pump, Low Flow.
METHOD OF SAMPLING: Bennett Pump, Low Flow.

WATER LEVEL/WATER QUALITY INSTRUMENTS USED

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
YSI Pro 1030		0740	BA	
HACH 2100 Q		0740	BA	
Solinst Interfac		—	BA	

WATER QUALITY READINGS DURING PURGING

TIME	TEMP (°C)	pH	SP. COND. (µS/cm)	TURB. (NTU)*	DO (mg/L)	ORP (mV)	Total Purge Volume (gal)	Comments (color/odor)
0802	21.5	7.63	334.0	10.1	455.97	0.13	120	mostly clear.
0830	20.1	7.71	311.5	4.81	455.95	0.13	124	cloudy, milky.
0900	20.8	7.75	322.8	0.73	455.91	0.13	128	clear.
0930	21.5	7.77	321.8	0.67	—	0.13	132	clear.
1000	20.6	7.76	319.1	0.64	455.91	0.13	136	clear.
1030	21.8*	7.78	323.3	0.45	455.80*	0.13	140	*skewed pump slightly.
1100	21.6	7.77	324.7	0.38	455.90	0.13	144	clear
1130	21.9	7.79	325.1	0.40	455.89	0.13	148	clear
1200	22.0	7.71	317.3	0.41	455.88	0.13	152	clear.
1230	21.9	7.75	321.2	0.46	455.90	0.13	156	clear
1300	21.8	7.76	326.1	0.44	455.86	0.13	160	clear
1330	21.9	7.76	324.7	0.48	455.85	0.13	162.5 164	
1400	Collect Sample							

*Pump Rate
Purge Vol.*

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

Day 3

Appendix H

Push-Ahead Sampling Analytical Results



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 14, 2022

Joseph Tracy

Intera, Inc.

2440 Louisiana Blvd NE Suite 700

Albuquerque, NM 87110

TEL: (505) 246-1600

FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202561

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202561

Date Reported: 2/14/2022

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Data Gap Well

Collection Date:

Lab ID: 2202561-001

Matrix: TRIP BLANK

Received Date: 2/11/2022 8:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: BRM
1,2-Dibromoethane	ND	0.0095		µg/L	1	2/11/2022 1:29:51 PM	65498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202561

Date Reported: 2/14/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-Grab

Project: Data Gap Well

Collection Date: 2/10/2022 4:15:00 PM

Lab ID: 2202561-002

Matrix: AQUEOUS

Received Date: 2/11/2022 8:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: BRM
1,2-Dibromoethane	ND	0.0091		µg/L	1	2/11/2022 1:45:02 PM	65498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202561

14-Feb-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65498	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65498	RunNo: 85780								
Prep Date: 2/11/2022	Analysis Date: 2/11/2022	SeqNo: 3020169	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65498	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65498	RunNo: 85780								
Prep Date: 2/11/2022	Analysis Date: 2/11/2022	SeqNo: 3020170	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	105	70	130			

Sample ID: LCSD-65498	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 65498	RunNo: 85780								
Prep Date: 2/11/2022	Analysis Date: 2/11/2022	SeqNo: 3020176	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.096	0.010	0.1000	0	95.6	70	130	9.14	20	

Sample ID: MB-65498	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65498	RunNo: 85780								
Prep Date: 2/11/2022	Analysis Date: 2/11/2022	SeqNo: 3020180	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: **Intera, Inc.**

Work Order Number: **2202561**

RcptNo: **1**

Received By: **Kasandra Payan**

2/11/2022 8:25:00 AM

KP

Completed By: **Sean Livingston**

2/11/2022 8:43:46 AM

Sean Livingston

Reviewed By: *SL 2/11/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0° C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *SL 2/11/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 15, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202613

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202613

Date Reported: 2/15/2022

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Data Gap Well

Collection Date:

Lab ID: 2202613-001

Matrix: TRIP BLANK

Received Date: 2/11/2022 1:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0094		µg/L	1	2/14/2022 12:46:36 PM	65512

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202613

Date Reported: 2/15/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-PA(486.5-488)

Project: Data Gap Well

Collection Date: 2/11/2022 12:55:00 PM

Lab ID: 2202613-002

Matrix: AQUEOUS

Received Date: 2/11/2022 1:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0093		µg/L	1	2/14/2022 1:01:37 PM	65512

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202613

15-Feb-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65512	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65512	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021625	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-65512	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65512	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021626	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65512	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65512	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021627	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	117	70	130			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2202613

RcptNo: 1

Received By: Sean Livingston 2/11/2022 1:30:00 PM

Sean Livingston

Completed By: Sean Livingston 2/11/2022 1:42:42 PM

Sean Livingston

Reviewed By: *SEA 2/11/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0° C Yes No NA
- Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *KPG 2/11/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.4	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 22, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202749

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202749

Date Reported: 2/22/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-PA(516.5-518)

Project: Data Gap Well

Collection Date: 2/15/2022 2:57:00 PM

Lab ID: 2202749-001

Matrix: GROUNDWA

Received Date: 2/15/2022 3:49:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0094		µg/L	1	2/16/2022 12:15:32 PM	65578

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202749

Date Reported: 2/22/2022

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Data Gap Well

Collection Date:

Lab ID: 2202749-002

Matrix: TRIP BLANK

Received Date: 2/15/2022 3:49:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0094		µg/L	1	2/16/2022 12:30:37 PM	65578

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202749

22-Feb-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65578	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65578	RunNo: 85847								
Prep Date: 2/16/2022	Analysis Date: 2/16/2022	SeqNo: 3023931	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-65578	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65578	RunNo: 85847								
Prep Date: 2/16/2022	Analysis Date: 2/16/2022	SeqNo: 3023932	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65578	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65578	RunNo: 85847								
Prep Date: 2/16/2022	Analysis Date: 2/16/2022	SeqNo: 3023933	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	101	70	130			

Sample ID: LCSD-65578	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 65578	RunNo: 85847								
Prep Date: 2/16/2022	Analysis Date: 2/16/2022	SeqNo: 3023934	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	100	70	130	1.31	20	

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2202749

RcptNo: 1

Received By: Juan Rojas

2/15/2022 3:49:00 PM

Juan Rojas

Completed By: Sean Livingston

2/15/2022 3:49:40 PM

Sean Livingston

Reviewed By: *ML*

2/15/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Samples were collected the same day and chilled. Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *Sean Livingston*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	13.0	Good				

Chain-of-Custody Record

Client: INTERA

Mailing Address: 2440 Louisiana Blvd
Site 700 Albuquerque, NM 87110
 Phone #: 246-1600

email or Fax#: jtracy@intera.com
 QA/QC Package: ahanson@intera.com

Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other

EDD (Type) Excel

Turn-Around Time:
 Standard Rush 24 hr

Project Name:
Data Gap Well

Project #:
ABWVA, COO9, KAFB

Project Manager:
Joe Tracy

Sampler: Lynde File

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 13.1-16.1-13.0 (°C)

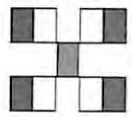
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/15/22	1457	GW	WV ABFF MWOL PA (576.5-518)	40 ml VOA (2)	Na TriD	2202749
2/15/22	1457	AG	Trip Blank	40 ml VOA (2)	NaS203	001
						002

Date: 2/15/22 Time: 1549

Relinquished by: Lynde File

Date: 2/15/22 Time: 1549

Received by: [Signature]



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMBs (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1) / BOP	X
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

February 22, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202929

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202929

Date Reported: 2/22/2022

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Data Gap Well

Collection Date:

Lab ID: 2202929-001

Matrix: TRIP BLANK

Received Date: 2/18/2022 11:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0095		µg/L	1	2/21/2022 11:43:59 AM	65669

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202929

Date Reported: 2/22/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01 PA 558.5-560

Project: Data Gap Well

Collection Date: 2/18/2022 8:05:00 AM

Lab ID: 2202929-002

Matrix: AQUEOUS

Received Date: 2/18/2022 11:33:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0095		µg/L	1	2/21/2022 11:59:01 AM	65669

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202929

22-Feb-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65669	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65669	RunNo: 85953								
Prep Date: 2/21/2022	Analysis Date: 2/21/2022	SeqNo: 3027984	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-65669	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65669	RunNo: 85953								
Prep Date: 2/21/2022	Analysis Date: 2/21/2022	SeqNo: 3027985	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65669	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65669	RunNo: 85953								
Prep Date: 2/21/2022	Analysis Date: 2/21/2022	SeqNo: 3027987	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.089	0.010	0.1000	0	89.2	70	130			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2202929

RcptNo: 1

Received By: Sean Livingston 2/18/2022 11:33:00 AM

Completed By: Sean Livingston 2/18/2022 11:46:50 AM

Reviewed By: *SL 2-18-22*

Sean Livingston
Sean Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *SL 2/18/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good				

Chain-of-Custody Record

Client: INTERA INC
 Mailing Address: 2440 Louisiana Blvd
ABQ NM 87110
 Phone #: 505 246-1600
 email or Fax#: Jtracy@intera.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 MEDD (Type) Excel

Turn-Around Time:
 Standard Rush 24 hr
 Project Name: Data Gap Well
 Project #: ABWDA-C009-KAFB

Project Manager:
Joseph Tracy
 Sampler: R. Sengebusch
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 3.9 +0.1 = 4.0°C

Container Type and #
2 X 40ML Na.Thio
2 X 40ML Na.Thio
 Preservative Type
Na.Thio
Na.Thio
 HEAL No.
2202929
001
002



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMBs (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	X
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date: 2-18-22 11:53 Relinquished by: JLM/Sengebusch Date: 2-18-22 11:07
 Date: 2-18-22 11:33 Relinquished by: Joe Tracy Date: 2-18-22 11:33
 Received by: Joe Tracy Via: SSC COO Date: 2/18/22
 Received by: Joe Tracy Via: SSC COO Date: 2/18/22

Remarks:
Please email results to Joe Tracy and Austin Hanson ahanson@intera.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 03, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202D03

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/28/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202D03

Date Reported: 3/3/2022

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Data Gap Well

Collection Date:

Lab ID: 2202D03-001

Matrix: TRIP BLANK

Received Date: 2/28/2022 4:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/1/2022 10:29:59 AM	65847

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202D03

Date Reported: 3/3/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-PA-(582-583.5

Project: Data Gap Well

Collection Date: 2/28/2022 3:45:00 PM

Lab ID: 2202D03-002

Matrix: AQUEOUS

Received Date: 2/28/2022 4:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0094		µg/L	1	3/1/2022 10:45:04 AM	65847

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202D03

03-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65847	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65847	RunNo: 86146								
Prep Date: 3/1/2022	Analysis Date: 3/1/2022	SeqNo: 3036383	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-65847	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65847	RunNo: 86146								
Prep Date: 3/1/2022	Analysis Date: 3/1/2022	SeqNo: 3036388	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65847	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65847	RunNo: 86146								
Prep Date: 3/1/2022	Analysis Date: 3/1/2022	SeqNo: 3036389	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	101	70	130			

Sample ID: LCSD-65847	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 65847	RunNo: 86146								
Prep Date: 3/1/2022	Analysis Date: 3/1/2022	SeqNo: 3036390	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	99.7	70	130	1.24	20	

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2202D03

RcptNo: 1

Received By: Kasandra Payan

2/28/2022 4:40:00 PM

KP

Completed By: Sean Livingston

2/28/2022 4:42:40 PM

Sean Livingston

Reviewed By: *[Signature]* 2-28-22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *sc 2/28/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	13.4	Good				

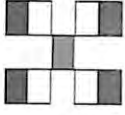
Chain-of-Custody Record

Client: INTERA Inc
 Mailing Address: 2440 Louisiana Blvd NE, APO, NM 87110
 Phone #: 505 246-1600
 email or Fax#: jtracy@intera.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type) Excel

Turn-Around Time: Standard Rush 24hr
 Project Name: Data Gap Well
 Project #: ABWUA, C009, KAFB
 Project Manager: Joseph Tracy
 Sampler: R. Sengebush
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 3.6 - 0.2 - 13.4 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-28-22	1545	A-g	Trip Blank	1 x 40mL ^{VOA}	NaThio	2202003
2-28-22	1545	A-g	WLABFFMW01-	2 x 40mL ^{VOA}	NaThio	001
			PA-(582-583.5)			002

Date: 2-28-22 Time: 1615 Relinquished by: J.M. Sengebush
 Date: 2-28-22 Time: 1640 Relinquished by: Am Khan



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X						
			X						

Remarks:

Also, email results to aharrison@intera.com

Received by: Am Khan Date: 2-28-22 Time: 1615
 Received by: Am Khan Date: 2-28-22 Time: 16:40

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 03, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2203031

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/1/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203031

Date Reported: 3/3/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-PA-(601-602)

Project: Data Gap Well

Collection Date: 3/1/2022 11:27:00 AM

Lab ID: 2203031-001

Matrix: AQUEOUS

Received Date: 3/1/2022 12:25:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0095		µg/L	1	3/2/2022 10:26:33 AM	65874

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order **2203031**
 Date Reported: **3/3/2022**

CLIENT: Intera, Inc.
Project: Data Gap Well
Lab ID: 2203031-002

Client Sample ID: Trip Blank
Collection Date: 3/1/2022 11:27:00 AM
Matrix: TRIP BLANK **Received Date:** 3/1/2022 12:25:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.0093		µg/L	1	3/2/2022 10:41:34 AM	65874

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203031

03-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65874	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65874	RunNo: 86170								
Prep Date: 3/2/2022	Analysis Date: 3/2/2022	SeqNo: 3037823	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-65874	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 65874	RunNo: 86170								
Prep Date: 3/2/2022	Analysis Date: 3/2/2022	SeqNo: 3037824	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-65874	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 65874	RunNo: 86170								
Prep Date: 3/2/2022	Analysis Date: 3/2/2022	SeqNo: 3037825	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.089	0.010	0.1000	0	89.2	70	130			

Sample ID: LCSD-65874	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 65874	RunNo: 86170								
Prep Date: 3/2/2022	Analysis Date: 3/2/2022	SeqNo: 3037826	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.082	0.010	0.1000	0	81.8	70	130	8.55	20	

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2203031

RcptNo: 1

Received By: Sean Livingston

3/1/2022 12:25:00 PM

Sean Livingston

Completed By: Tracy Casarrubias

3/1/2022 12:35:03 PM

Reviewed By: *TC 3/1/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels?
 (Note discrepancies on chain of custody) Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met?
 (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *CWC 3/1/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	16.6	Good	Not Present			

Chain-of-Custody Record

Client: INTERA Inc.

Mailing Address: 2440 Louisiana Blvd NE

ABQ, NM 87110 Suite 700

Phone #: 505 246-1600

email or Fax#: stracy@intera.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type) EXCEL

Turn-Around Time:

Standard Rush 24 hr

Project Name:

Data Gap Well

Project #:

ABWUA.009.K.AFB

Project Manager:

Joseph Tracy

Sampler: R. Sengeshubh

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 16.7-21.6 (°C)

Container Type and # 1 X 40 mL VOA NaThio Preservative Type NaThio HEAL No. 2203031

2 X 40 mL VOA NaThio HEAL No. 001

-(601-602)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X						
			X						

Remarks: Please email results to;
stracy@intera.com
AHanson@intera.com

Received by: Stacy Date: 3/1/22 Time: 11:58
 Received by: SCA COO Date: 3/1/22 Time: 12:25

Relinquished by: R. Sengeshubh
 Relinquished by: [Signature]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix I

Groundwater Sampling Analytical Results



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 07, 2022

Joseph Tracy

Intera, Inc.

2440 Louisiana Blvd NE Suite 700

Albuquerque, NM 87110

TEL: (505) 246-1600

FAX: (505) 246-2600

RE: Data Gap Well

OrderNo.: 2205A62

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-88267-1
Client Project/Site: KIRKLAND AFB
Revision: 1

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/7/2022 7:57:33 AM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	32
Lab Chronicle	34
Certification Summary	36
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	43

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Job ID: 320-88267-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88267-1

Comments

Revised report on 10/07/2022 to add additional metals (Fe and Mn) on 6010 Metals.
No additional comments.

Receipt

The samples were received on 5/25/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

Receipt Exceptions

Sample appears to have been frozen prior to shipment, as upon receipt sample was partially frozen with ice particles

NCM sent to client.

Received extra container 125 ml plastic with H2SO4, no analysis requested for given container.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-592098.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-593081.

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

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method SM 2320B: The method requirement for no headspace was not met. The following alkalinity sample in analytical batch 320-592720 was received and analyzed with headspace in the sample container: 2205A62-001D WUABFFMW01 (320-88267-4).

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

Organic Prep

Method 3510C:

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8270C aqueous in preparation batch 320-590696.

Method 3510C: The following sample: 2205A62-001C WUABFFMW01 (320-88267-3) was decanted prior to preparation. This sample is associated with method 8270C aqueous in preparation batch 320-590696.

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 2205A62-001C WUABFFMW01 (320-88267-3). These samples are associated with method 8270C aqueous in preparation batch 320-590696.

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Job ID: 320-88267-1 (Continued)

Laboratory: Eurofins Sacramento (Continued)

Nominal volume required by method 8270C is 1000mL.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001A WUABFFMW01

Lab Sample ID: 320-88267-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Benzene	0.094		0.50	0.080	ug/L	1	8260B	Total/NA
2-Butanone (MEK)	0.47		2.0	0.33	ug/L	1	8260B	Total/NA
Toluene	0.26		0.50	0.095	ug/L	1	8260B	Total/NA

Client Sample ID: 2205A62-001B WUABFFMW01

Lab Sample ID: 320-88267-2

No Detections.

Client Sample ID: 2205A62-001C WUABFFMW01

Lab Sample ID: 320-88267-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Bis(2-ethylhexyl) phthalate	1.3		12	1.2	ug/L	1	8270C	Total/NA

Client Sample ID: 2205A62-001D WUABFFMW01

Lab Sample ID: 320-88267-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Bromide	0.18		0.50	0.088	mg/L	1	300.0	Total/NA
Chloride	12		1.0	0.37	mg/L	1	300.0	Total/NA
Sulfate	26		1.0	0.36	mg/L	1	300.0	Total/NA
Total Alkalinity	120		5.0	5.0	mg/L	1	SM 2320B	Total/NA

Client Sample ID: 2205A62-001E WUABFFMW01

Lab Sample ID: 320-88267-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Calcium	33		0.50	0.050	mg/L	1	6010B	Total/NA
Magnesium	4.4		0.50	0.040	mg/L	1	6010B	Total/NA
Potassium	2.8		1.0	0.093	mg/L	1	6010B	Total/NA
Sodium	25	B	1.0	0.25	mg/L	1	6010B	Total/NA

Client Sample ID: 2205A62-001F WUABFFMW01

Lab Sample ID: 320-88267-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Iron	0.13		0.10	0.020	mg/L	1	6010B	Dissolved
Manganese	0.17		0.0050	0.0025	mg/L	1	6010B	Dissolved

Client Sample ID: 2205A62-002A Trip Blank

Lab Sample ID: 320-88267-7

No Detections.

Client Sample ID: 2205A62-002B Trip Blank

Lab Sample ID: 320-88267-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001A WUABFFMW01

Lab Sample ID: 320-88267-1

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			06/06/22 20:24	1
Benzene	0.094	J	0.50	0.080	ug/L			06/06/22 20:24	1
Bromobenzene	ND		1.0	0.091	ug/L			06/06/22 20:24	1
Bromochloromethane	ND		1.0	0.18	ug/L			06/06/22 20:24	1
Bromodichloromethane	ND		0.50	0.14	ug/L			06/06/22 20:24	1
Bromoform	ND		1.0	0.19	ug/L			06/06/22 20:24	1
Bromomethane	ND		1.0	0.21	ug/L			06/06/22 20:24	1
2-Butanone (MEK)	0.47	J	2.0	0.33	ug/L			06/06/22 20:24	1
n-Butylbenzene	ND		1.0	0.18	ug/L			06/06/22 20:24	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			06/06/22 20:24	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			06/06/22 20:24	1
Carbon disulfide	ND		2.0	0.36	ug/L			06/06/22 20:24	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			06/06/22 20:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/06/22 20:24	1
Chloroethane	ND		1.0	0.24	ug/L			06/06/22 20:24	1
Chloroform	ND		1.0	0.12	ug/L			06/06/22 20:24	1
Chloromethane	ND		1.0	0.26	ug/L			06/06/22 20:24	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/22 20:24	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/22 20:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			06/06/22 20:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.12	ug/L			06/06/22 20:24	1
Dibromochloromethane	ND		0.50	0.16	ug/L			06/06/22 20:24	1
Dibromomethane	ND		0.50	0.17	ug/L			06/06/22 20:24	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			06/06/22 20:24	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			06/06/22 20:24	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			06/06/22 20:24	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			06/06/22 20:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/06/22 20:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/06/22 20:24	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			06/06/22 20:24	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			06/06/22 20:24	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			06/06/22 20:24	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/22 20:24	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			06/06/22 20:24	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			06/06/22 20:24	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/06/22 20:24	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			06/06/22 20:24	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			06/06/22 20:24	1
Ethylbenzene	ND		0.50	0.084	ug/L			06/06/22 20:24	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			06/06/22 20:24	1
2-Hexanone	ND		2.0	0.17	ug/L			06/06/22 20:24	1
Isopropylbenzene	ND		0.50	0.11	ug/L			06/06/22 20:24	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			06/06/22 20:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			06/06/22 20:24	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/06/22 20:24	1
Methylene Chloride	ND		1.0	0.16	ug/L			06/06/22 20:24	1
Naphthalene	ND		1.0	0.48	ug/L			06/06/22 20:24	1
N-Propylbenzene	ND		1.0	0.11	ug/L			06/06/22 20:24	1
Styrene	ND		0.50	0.13	ug/L			06/06/22 20:24	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001A WUABFFMW01

Lab Sample ID: 320-88267-1

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/06/22 20:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			06/06/22 20:24	1
Tetrachloroethene	ND		0.50	0.10	ug/L			06/06/22 20:24	1
Toluene	0.26	J	0.50	0.095	ug/L			06/06/22 20:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			06/06/22 20:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			06/06/22 20:24	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			06/06/22 20:24	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			06/06/22 20:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/06/22 20:24	1
Trichloroethene	ND		0.50	0.10	ug/L			06/06/22 20:24	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			06/06/22 20:24	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			06/06/22 20:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			06/06/22 20:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			06/06/22 20:24	1
Vinyl acetate	ND		2.0	0.19	ug/L			06/06/22 20:24	1
Vinyl chloride	ND		0.50	0.18	ug/L			06/06/22 20:24	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			06/06/22 20:24	1
o-Xylene	ND		0.50	0.14	ug/L			06/06/22 20:24	1
Xylenes, Total	ND		0.50	0.27	ug/L			06/06/22 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		69 - 129		06/06/22 20:24	1
1,2-Dichloroethane-d4 (Surr)	98		66 - 126		06/06/22 20:24	1
Toluene-d8 (Surr)	99		67 - 127		06/06/22 20:24	1
Dibromofluoromethane (Surr)	105		68 - 128		06/06/22 20:24	1

Client Sample ID: 2205A62-001B WUABFFMW01

Lab Sample ID: 320-88267-2

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.020	0.0068	ug/L		06/03/22 15:47	06/04/22 01:55	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		06/03/22 15:47	06/04/22 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	89		70 - 130	06/03/22 15:47	06/04/22 01:55	1

Client Sample ID: 2205A62-001C WUABFFMW01

Lab Sample ID: 320-88267-3

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Acenaphthylene	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Anthracene	ND		12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzo[a]anthracene	ND		12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzo[b]fluoranthene	ND		12	1.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzo[k]fluoranthene	ND		12	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzo[g,h,i]perylene	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001C WUABFFMW01

Lab Sample ID: 320-88267-3

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		12	0.81	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzoic acid	ND		60	24	ug/L		05/26/22 13:37	06/03/22 16:58	1
Benzyl alcohol	ND		12	3.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
Bis(2-chloroethoxy)methane	ND		12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
Bis(2-chloroethyl)ether	ND		12	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
bis (2-chloroisopropyl) ether	ND		12	1.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
Bis(2-ethylhexyl) phthalate	1.3	J	12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Bromophenyl phenyl ether	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Butyl benzyl phthalate	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Chloroaniline	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Chloro-3-methylphenol	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Chloronaphthalene	ND		12	1.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Chlorophenol	ND		12	1.9	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Chlorophenyl phenyl ether	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Chrysene	ND		12	0.73	ug/L		05/26/22 13:37	06/03/22 16:58	1
Dibenz(a,h)anthracene	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Dibenzofuran	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Di-n-butyl phthalate	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
1,2-Dichlorobenzene	ND		12	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
1,3-Dichlorobenzene	ND		12	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
1,4-Dichlorobenzene	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
3,3'-Dichlorobenzidine	ND		60	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4-Dichlorophenol	ND		12	3.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
Diethyl phthalate	ND		12	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4-Dimethylphenol	ND		12	2.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
Dimethyl phthalate	ND		12	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
4,6-Dinitro-2-methylphenol	ND		60	2.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4-Dinitrophenol	ND		60	24	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4-Dinitrotoluene	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,6-Dinitrotoluene	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Di-n-octyl phthalate	ND		12	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
Fluoranthene	ND		12	0.78	ug/L		05/26/22 13:37	06/03/22 16:58	1
Fluorene	ND		12	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
Hexachlorobenzene	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
Hexachlorobutadiene	ND		12	1.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
Hexachlorocyclopentadiene	ND		60	6.0	ug/L		05/26/22 13:37	06/03/22 16:58	1
Hexachloroethane	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
Indeno[1,2,3-cd]pyrene	ND		12	4.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
Isophorone	ND		12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Methylnaphthalene	ND		12	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Methylphenol	ND		12	1.1	ug/L		05/26/22 13:37	06/03/22 16:58	1
3-Methylphenol & 4-Methylphenol	ND		24	1.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Naphthalene	ND		12	1.6	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Nitroaniline	ND		60	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
3-Nitroaniline	ND		60	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Nitroaniline	ND		60	1.8	ug/L		05/26/22 13:37	06/03/22 16:58	1
Nitrobenzene	ND		12	1.9	ug/L		05/26/22 13:37	06/03/22 16:58	1
2-Nitrophenol	ND		12	2.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
4-Nitrophenol	ND		60	7.3	ug/L		05/26/22 13:37	06/03/22 16:58	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001C WUABFFMW01

Lab Sample ID: 320-88267-3

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		12	0.64	ug/L		05/26/22 13:37	06/03/22 16:58	1
N-Nitrosodi-n-propylamine	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
Pentachlorophenol	ND		60	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Phenanthrene	ND		12	1.2	ug/L		05/26/22 13:37	06/03/22 16:58	1
Phenol	ND		12	1.3	ug/L		05/26/22 13:37	06/03/22 16:58	1
Pyrene	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
Pyridine	ND		24	0.96	ug/L		05/26/22 13:37	06/03/22 16:58	1
1,2,4-Trichlorobenzene	ND		12	1.7	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4,5-Trichlorophenol	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
2,4,6-Trichlorophenol	ND		12	2.4	ug/L		05/26/22 13:37	06/03/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		55 - 140				05/26/22 13:37	06/03/22 16:58	1
2-Fluorobiphenyl (Surr)	84		57 - 98				05/26/22 13:37	06/03/22 16:58	1
2-Fluorophenol (Surr)	72		47 - 87				05/26/22 13:37	06/03/22 16:58	1
Nitrobenzene-d5 (Surr)	82		64 - 104				05/26/22 13:37	06/03/22 16:58	1
Phenol-d5 (Surr)	55		29 - 69				05/26/22 13:37	06/03/22 16:58	1
Terphenyl-d14 (Surr)	80		70 - 118				05/26/22 13:37	06/03/22 16:58	1

Client Sample ID: 2205A62-001D WUABFFMW01

Lab Sample ID: 320-88267-4

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.18	J	0.50	0.088	mg/L			05/25/22 23:55	1
Nitrate as N	ND		0.25	0.10	mg/L			05/25/22 23:55	1
Chloride	12		1.0	0.37	mg/L			05/25/22 23:55	1
Nitrite as N	ND		0.25	0.050	mg/L			05/25/22 23:55	1
Sulfate	26		1.0	0.36	mg/L			05/25/22 23:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	120		5.0	5.0	mg/L			06/03/22 13:28	1

Client Sample ID: 2205A62-001E WUABFFMW01

Lab Sample ID: 320-88267-5

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0025	mg/L		06/02/22 15:44	06/03/22 12:20	1
Arsenic	ND		0.020	0.012	mg/L		06/02/22 15:44	06/03/22 12:20	1
Calcium	33		0.50	0.050	mg/L		06/02/22 15:44	06/03/22 12:20	1
Magnesium	4.4		0.50	0.040	mg/L		06/02/22 15:44	06/03/22 12:20	1
Potassium	2.8		1.0	0.093	mg/L		06/02/22 15:44	06/03/22 12:20	1
Sodium	25	B	1.0	0.25	mg/L		06/02/22 15:44	06/03/22 16:09	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001F WUABFFMW01

Lab Sample ID: 320-88267-6

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.13		0.10	0.020	mg/L		06/10/22 15:51	06/13/22 13:52	1
Manganese	0.17		0.0050	0.0025	mg/L		06/10/22 15:51	06/13/22 13:52	1

Client Sample ID: 2205A62-002A Trip Blank

Lab Sample ID: 320-88267-7

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			06/02/22 13:01	1
Benzene	ND		0.50	0.080	ug/L			06/02/22 13:01	1
Bromobenzene	ND		1.0	0.091	ug/L			06/02/22 13:01	1
Bromochloromethane	ND		1.0	0.18	ug/L			06/02/22 13:01	1
Bromodichloromethane	ND		0.50	0.14	ug/L			06/02/22 13:01	1
Bromoform	ND		1.0	0.19	ug/L			06/02/22 13:01	1
Bromomethane	ND		1.0	0.21	ug/L			06/02/22 13:01	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			06/02/22 13:01	1
n-Butylbenzene	ND		1.0	0.18	ug/L			06/02/22 13:01	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			06/02/22 13:01	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			06/02/22 13:01	1
Carbon disulfide	ND		2.0	0.36	ug/L			06/02/22 13:01	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			06/02/22 13:01	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/02/22 13:01	1
Chloroethane	ND		1.0	0.24	ug/L			06/02/22 13:01	1
Chloroform	ND		1.0	0.12	ug/L			06/02/22 13:01	1
Chloromethane	ND		1.0	0.26	ug/L			06/02/22 13:01	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			06/02/22 13:01	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			06/02/22 13:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			06/02/22 13:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.12	ug/L			06/02/22 13:01	1
Dibromochloromethane	ND		0.50	0.16	ug/L			06/02/22 13:01	1
Dibromomethane	ND		0.50	0.17	ug/L			06/02/22 13:01	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			06/02/22 13:01	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			06/02/22 13:01	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			06/02/22 13:01	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			06/02/22 13:01	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/02/22 13:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/02/22 13:01	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			06/02/22 13:01	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			06/02/22 13:01	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			06/02/22 13:01	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			06/02/22 13:01	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			06/02/22 13:01	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			06/02/22 13:01	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/02/22 13:01	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			06/02/22 13:01	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			06/02/22 13:01	1
Ethylbenzene	ND		0.50	0.084	ug/L			06/02/22 13:01	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			06/02/22 13:01	1
2-Hexanone	ND		2.0	0.17	ug/L			06/02/22 13:01	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-002A Trip Blank

Lab Sample ID: 320-88267-7

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	0.11	ug/L			06/02/22 13:01	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			06/02/22 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			06/02/22 13:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/02/22 13:01	1
Methylene Chloride	ND		1.0	0.16	ug/L			06/02/22 13:01	1
Naphthalene	ND		1.0	0.48	ug/L			06/02/22 13:01	1
N-Propylbenzene	ND		1.0	0.11	ug/L			06/02/22 13:01	1
Styrene	ND		0.50	0.13	ug/L			06/02/22 13:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/02/22 13:01	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			06/02/22 13:01	1
Tetrachloroethene	ND		0.50	0.10	ug/L			06/02/22 13:01	1
Toluene	ND		0.50	0.095	ug/L			06/02/22 13:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			06/02/22 13:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			06/02/22 13:01	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			06/02/22 13:01	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			06/02/22 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/02/22 13:01	1
Trichloroethene	ND		0.50	0.10	ug/L			06/02/22 13:01	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			06/02/22 13:01	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			06/02/22 13:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			06/02/22 13:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			06/02/22 13:01	1
Vinyl acetate	ND		2.0	0.19	ug/L			06/02/22 13:01	1
Vinyl chloride	ND		0.50	0.18	ug/L			06/02/22 13:01	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			06/02/22 13:01	1
o-Xylene	ND		0.50	0.14	ug/L			06/02/22 13:01	1
Xylenes, Total	ND		0.50	0.27	ug/L			06/02/22 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		69 - 129		06/02/22 13:01	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 126		06/02/22 13:01	1
Toluene-d8 (Surr)	109		67 - 127		06/02/22 13:01	1
Dibromofluoromethane (Surr)	115		68 - 128		06/02/22 13:01	1

Client Sample ID: 2205A62-002B Trip Blank

Lab Sample ID: 320-88267-8

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 10:30

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.020	0.0069	ug/L		06/03/22 15:47	06/04/22 02:19	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		06/03/22 15:47	06/04/22 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	91		70 - 130	06/03/22 15:47	06/04/22 02:19	1

Eurofins Sacramento

Surrogate Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DCA	TOL	DBFM
		(69-129)	(66-126)	(67-127)	(68-128)
320-88267-1	2205A62-001A WUABFFMW01	90	98	99	105
320-88267-7	2205A62-002A Trip Blank	98	102	109	115
LCS 320-592098/5	Lab Control Sample	101	99	108	110
LCS 320-593081/5	Lab Control Sample	91	98	102	103
LCSD 320-592098/6	Lab Control Sample Dup	99	96	107	108
LCSD 320-593081/6	Lab Control Sample Dup	92	98	101	105
MB 320-592098/10	Method Blank	102	108	111	118
MB 320-593081/10	Method Blank	91	102	101	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP	FBP	2FP	NBZ	PHL	TPHL
		(55-140)	(57-98)	(47-87)	(64-104)	(29-69)	(70-118)
320-88267-3	2205A62-001C WUABFFMW01	96	84	72	82	55	80
LCS 320-590696/2-A	Lab Control Sample	104	92	72	100	57	93
LCSD 320-590696/3-A	Lab Control Sample Dup	104	91	75	102	59	95
MB 320-590696/1-A	Method Blank	92	87	72	89	53	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DBP1
		(70-130)
320-88267-2	2205A62-001B WUABFFMW01	89
320-88267-8	2205A62-002B Trip Blank	91
LCS 280-577106/2-A	Lab Control Sample	94
LCSD 280-577106/3-A	Lab Control Sample Dup	91
MB 280-577106/1-A	Method Blank	100

Surrogate Legend

12DBP1 = 1,2-Dibromopropane

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-592098/10
Matrix: Water
Analysis Batch: 592098

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.8	ug/L			06/02/22 12:37	1
Benzene	ND		0.50	0.080	ug/L			06/02/22 12:37	1
Bromobenzene	ND		1.0	0.091	ug/L			06/02/22 12:37	1
Bromochloromethane	ND		1.0	0.18	ug/L			06/02/22 12:37	1
Bromodichloromethane	ND		0.50	0.14	ug/L			06/02/22 12:37	1
Bromoform	ND		1.0	0.19	ug/L			06/02/22 12:37	1
Bromomethane	ND		1.0	0.21	ug/L			06/02/22 12:37	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			06/02/22 12:37	1
n-Butylbenzene	ND		1.0	0.18	ug/L			06/02/22 12:37	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			06/02/22 12:37	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			06/02/22 12:37	1
Carbon disulfide	ND		2.0	0.36	ug/L			06/02/22 12:37	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			06/02/22 12:37	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/02/22 12:37	1
Chloroethane	ND		1.0	0.24	ug/L			06/02/22 12:37	1
Chloroform	ND		1.0	0.12	ug/L			06/02/22 12:37	1
Chloromethane	ND		1.0	0.26	ug/L			06/02/22 12:37	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			06/02/22 12:37	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			06/02/22 12:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			06/02/22 12:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.12	ug/L			06/02/22 12:37	1
Dibromochloromethane	ND		0.50	0.16	ug/L			06/02/22 12:37	1
Dibromomethane	ND		0.50	0.17	ug/L			06/02/22 12:37	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			06/02/22 12:37	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			06/02/22 12:37	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			06/02/22 12:37	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			06/02/22 12:37	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/02/22 12:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/02/22 12:37	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			06/02/22 12:37	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			06/02/22 12:37	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			06/02/22 12:37	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			06/02/22 12:37	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			06/02/22 12:37	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			06/02/22 12:37	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/02/22 12:37	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			06/02/22 12:37	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			06/02/22 12:37	1
Ethylbenzene	ND		0.50	0.084	ug/L			06/02/22 12:37	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			06/02/22 12:37	1
2-Hexanone	ND		2.0	0.17	ug/L			06/02/22 12:37	1
Isopropylbenzene	ND		0.50	0.11	ug/L			06/02/22 12:37	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			06/02/22 12:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			06/02/22 12:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/02/22 12:37	1
Methylene Chloride	ND		1.0	0.16	ug/L			06/02/22 12:37	1
Naphthalene	ND		1.0	0.48	ug/L			06/02/22 12:37	1
N-Propylbenzene	ND		1.0	0.11	ug/L			06/02/22 12:37	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-592098/10
Matrix: Water
Analysis Batch: 592098

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.13	ug/L			06/02/22 12:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/02/22 12:37	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			06/02/22 12:37	1
Tetrachloroethene	ND		0.50	0.10	ug/L			06/02/22 12:37	1
Toluene	ND		0.50	0.095	ug/L			06/02/22 12:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			06/02/22 12:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			06/02/22 12:37	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			06/02/22 12:37	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			06/02/22 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/02/22 12:37	1
Trichloroethene	ND		0.50	0.10	ug/L			06/02/22 12:37	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			06/02/22 12:37	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			06/02/22 12:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			06/02/22 12:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			06/02/22 12:37	1
Vinyl acetate	ND		2.0	0.19	ug/L			06/02/22 12:37	1
Vinyl chloride	ND		0.50	0.18	ug/L			06/02/22 12:37	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			06/02/22 12:37	1
o-Xylene	ND		0.50	0.14	ug/L			06/02/22 12:37	1
Xylenes, Total	ND		0.50	0.27	ug/L			06/02/22 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		69 - 129		06/02/22 12:37	1
1,2-Dichloroethane-d4 (Surr)	108		66 - 126		06/02/22 12:37	1
Toluene-d8 (Surr)	111		67 - 127		06/02/22 12:37	1
Dibromofluoromethane (Surr)	118		68 - 128		06/02/22 12:37	1

Lab Sample ID: LCS 320-592098/5
Matrix: Water
Analysis Batch: 592098

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	50.6		ug/L		101	45 - 151
Benzene	20.0	20.5		ug/L		103	67 - 127
Bromobenzene	20.0	21.0		ug/L		105	68 - 128
Bromochloromethane	20.0	22.2		ug/L		111	69 - 129
Bromodichloromethane	20.0	20.0		ug/L		100	69 - 129
Bromoform	20.0	18.8		ug/L		94	64 - 134
Bromomethane	20.0	19.9		ug/L		100	65 - 125
2-Butanone (MEK)	50.0	52.6		ug/L		105	66 - 126
n-Butylbenzene	20.0	21.0		ug/L		105	70 - 130
sec-Butylbenzene	20.0	21.2		ug/L		106	69 - 129
tert-Butylbenzene	20.0	21.3		ug/L		106	68 - 128
Carbon disulfide	20.0	20.9		ug/L		104	66 - 126
Carbon tetrachloride	20.0	19.7		ug/L		98	71 - 131
Chlorobenzene	20.0	19.9		ug/L		99	66 - 126
Chloroethane	20.0	21.0		ug/L		105	67 - 127
Chloroform	20.0	20.4		ug/L		102	68 - 128

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-592098/5
Matrix: Water
Analysis Batch: 592098

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	22.8		ug/L		114	64 - 124
2-Chlorotoluene	20.0	21.0		ug/L		105	66 - 126
4-Chlorotoluene	20.0	21.3		ug/L		107	67 - 127
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	58 - 139
1,2-Dibromoethane (EDB)	20.0	20.2		ug/L		101	69 - 129
Dibromochloromethane	20.0	19.8		ug/L		99	70 - 130
Dibromomethane	20.0	22.0		ug/L		110	68 - 128
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	67 - 127
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	66 - 126
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	66 - 126
Dichlorodifluoromethane	20.0	20.8		ug/L		104	53 - 122
1,1-Dichloroethane	20.0	20.9		ug/L		104	67 - 127
1,2-Dichloroethane	20.0	20.6		ug/L		103	66 - 126
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	67 - 127
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	68 - 128
1,1-Dichloroethene	20.0	21.3		ug/L		106	69 - 129
1,2-Dichloropropane	20.0	20.6		ug/L		103	69 - 129
1,3-Dichloropropane	20.0	19.6		ug/L		98	67 - 127
2,2-Dichloropropane	20.0	20.3		ug/L		102	67 - 127
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	20.0	20.7		ug/L		104	70 - 130
1,1-Dichloropropene	20.0	21.0		ug/L		105	69 - 129
Ethylbenzene	20.0	20.2		ug/L		101	67 - 127
Hexachlorobutadiene	20.0	19.1		ug/L		96	72 - 134
2-Hexanone	50.0	47.2		ug/L		94	72 - 132
Isopropylbenzene	20.0	20.3		ug/L		102	69 - 129
p-Isopropyltoluene	20.0	21.3		ug/L		107	69 - 129
4-Methyl-2-pentanone (MIBK)	50.0	47.9		ug/L		96	70 - 130
Methyl tert-butyl ether	20.0	21.0		ug/L		105	67 - 127
Methylene Chloride	20.0	20.5		ug/L		102	67 - 127
Naphthalene	20.0	20.1		ug/L		100	60 - 144
N-Propylbenzene	20.0	21.7		ug/L		109	68 - 128
Styrene	20.0	21.1		ug/L		105	69 - 129
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		98	69 - 129
1,1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	68 - 128
Tetrachloroethene	20.0	20.1		ug/L		101	69 - 129
Toluene	20.0	20.6		ug/L		103	68 - 128
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	58 - 145
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	66 - 135
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	69 - 129
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	69 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.7		ug/L		103	69 - 129
Trichloroethene	20.0	19.7		ug/L		98	69 - 129
Trichlorofluoromethane	20.0	21.2		ug/L		106	69 - 129
1,2,3-Trichloropropane	20.0	20.2		ug/L		101	68 - 128
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	68 - 128
1,3,5-Trimethylbenzene	20.0	22.4		ug/L		112	68 - 128
Vinyl acetate	20.0	21.7		ug/L		109	62 - 140

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-592098/5
Matrix: Water
Analysis Batch: 592098

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	21.7		ug/L		108	65 - 125
m-Xylene & p-Xylene	20.0	20.9		ug/L		105	67 - 127
o-Xylene	20.0	20.2		ug/L		101	68 - 128
Xylenes, Total	40.0	41.1		ug/L		103	68 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		69 - 129
1,2-Dichloroethane-d4 (Surr)	99		66 - 126
Toluene-d8 (Surr)	108		67 - 127
Dibromofluoromethane (Surr)	110		68 - 128

Lab Sample ID: LCSD 320-592098/6
Matrix: Water
Analysis Batch: 592098

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	50.0	48.3		ug/L		97	45 - 151	5	49
Benzene	20.0	20.7		ug/L		104	67 - 127	1	21
Bromobenzene	20.0	21.1		ug/L		105	68 - 128	0	17
Bromochloromethane	20.0	20.7		ug/L		103	69 - 129	7	19
Bromodichloromethane	20.0	19.9		ug/L		100	69 - 129	0	20
Bromoform	20.0	19.5		ug/L		98	64 - 134	4	16
Bromomethane	20.0	19.3		ug/L		96	65 - 125	3	40
2-Butanone (MEK)	50.0	52.9		ug/L		106	66 - 126	0	34
n-Butylbenzene	20.0	20.2		ug/L		101	70 - 130	4	25
sec-Butylbenzene	20.0	20.6		ug/L		103	69 - 129	3	19
tert-Butylbenzene	20.0	21.1		ug/L		105	68 - 128	1	19
Carbon disulfide	20.0	20.8		ug/L		104	66 - 126	0	26
Carbon tetrachloride	20.0	19.9		ug/L		100	71 - 131	1	25
Chlorobenzene	20.0	20.2		ug/L		101	66 - 126	1	15
Chloroethane	20.0	21.3		ug/L		107	67 - 127	2	40
Chloroform	20.0	20.4		ug/L		102	68 - 128	0	22
Chloromethane	20.0	22.8		ug/L		114	64 - 124	0	25
2-Chlorotoluene	20.0	20.5		ug/L		103	66 - 126	2	19
4-Chlorotoluene	20.0	20.7		ug/L		103	67 - 127	3	19
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		104	58 - 139	1	33
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	69 - 129	2	15
Dibromochloromethane	20.0	20.0		ug/L		100	70 - 130	1	17
Dibromomethane	20.0	20.9		ug/L		104	68 - 128	5	17
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	67 - 127	5	19
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	66 - 126	2	17
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	66 - 126	2	15
Dichlorodifluoromethane	20.0	20.3		ug/L		102	53 - 122	2	51
1,1-Dichloroethane	20.0	21.0		ug/L		105	67 - 127	1	21
1,2-Dichloroethane	20.0	20.3		ug/L		102	66 - 126	1	25
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	67 - 127	1	18
trans-1,2-Dichloroethene	20.0	21.1		ug/L		105	68 - 128	2	20
1,1-Dichloroethene	20.0	21.2		ug/L		106	69 - 129	1	22

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-592098/6
Matrix: Water
Analysis Batch: 592098

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	20.0	20.8		ug/L		104	69 - 129	1	27
1,3-Dichloropropane	20.0	19.8		ug/L		99	67 - 127	1	15
2,2-Dichloropropane	20.0	19.9		ug/L		100	67 - 127	2	25
cis-1,3-Dichloropropene	20.0	20.8		ug/L		104	70 - 130	2	24
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	70 - 130	1	29
1,1-Dichloropropene	20.0	20.6		ug/L		103	69 - 129	2	20
Ethylbenzene	20.0	20.4		ug/L		102	67 - 127	1	15
Hexachlorobutadiene	20.0	18.2		ug/L		91	72 - 134	5	30
2-Hexanone	50.0	49.0		ug/L		98	72 - 132	4	31
Isopropylbenzene	20.0	20.3		ug/L		101	69 - 129	0	17
p-Isopropyltoluene	20.0	20.3		ug/L		101	69 - 129	5	18
4-Methyl-2-pentanone (MIBK)	50.0	51.0		ug/L		102	70 - 130	6	33
Methyl tert-butyl ether	20.0	21.1		ug/L		106	67 - 127	1	24
Methylene Chloride	20.0	20.2		ug/L		101	67 - 127	1	20
Naphthalene	20.0	18.7		ug/L		94	60 - 144	7	48
N-Propylbenzene	20.0	21.3		ug/L		106	68 - 128	2	26
Styrene	20.0	21.1		ug/L		105	69 - 129	0	15
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		98	69 - 129	1	23
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	68 - 128	5	27
Tetrachloroethene	20.0	20.3		ug/L		102	69 - 129	1	18
Toluene	20.0	20.8		ug/L		104	68 - 128	1	20
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	58 - 145	6	45
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	66 - 135	3	40
1,1,1-Trichloroethane	20.0	20.3		ug/L		102	69 - 129	0	25
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	69 - 129	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.4		ug/L		102	69 - 129	1	40
Trichloroethene	20.0	20.3		ug/L		101	69 - 129	3	20
Trichlorofluoromethane	20.0	21.0		ug/L		105	69 - 129	1	41
1,2,3-Trichloropropane	20.0	19.6		ug/L		98	68 - 128	3	22
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	68 - 128	2	17
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	68 - 128	4	20
Vinyl acetate	20.0	21.1		ug/L		105	62 - 140	3	30
Vinyl chloride	20.0	21.9		ug/L		110	65 - 125	1	33
m-Xylene & p-Xylene	20.0	20.8		ug/L		104	67 - 127	1	15
o-Xylene	20.0	20.5		ug/L		102	68 - 128	1	18
Xylenes, Total	40.0	41.3		ug/L		103	68 - 128	0	16

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	99		69 - 129
1,2-Dichloroethane-d4 (Surr)	96		66 - 126
Toluene-d8 (Surr)	107		67 - 127
Dibromofluoromethane (Surr)	108		68 - 128

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-593081/10
Matrix: Water
Analysis Batch: 593081

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.8	ug/L			06/06/22 13:07	1
Benzene	ND		0.50	0.080	ug/L			06/06/22 13:07	1
Bromobenzene	ND		1.0	0.091	ug/L			06/06/22 13:07	1
Bromochloromethane	ND		1.0	0.18	ug/L			06/06/22 13:07	1
Bromodichloromethane	ND		0.50	0.14	ug/L			06/06/22 13:07	1
Bromoform	ND		1.0	0.19	ug/L			06/06/22 13:07	1
Bromomethane	ND		1.0	0.21	ug/L			06/06/22 13:07	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			06/06/22 13:07	1
n-Butylbenzene	ND		1.0	0.18	ug/L			06/06/22 13:07	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			06/06/22 13:07	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			06/06/22 13:07	1
Carbon disulfide	ND		2.0	0.36	ug/L			06/06/22 13:07	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			06/06/22 13:07	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/06/22 13:07	1
Chloroethane	ND		1.0	0.24	ug/L			06/06/22 13:07	1
Chloroform	ND		1.0	0.12	ug/L			06/06/22 13:07	1
Chloromethane	ND		1.0	0.26	ug/L			06/06/22 13:07	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/22 13:07	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/22 13:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			06/06/22 13:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.12	ug/L			06/06/22 13:07	1
Dibromochloromethane	ND		0.50	0.16	ug/L			06/06/22 13:07	1
Dibromomethane	ND		0.50	0.17	ug/L			06/06/22 13:07	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			06/06/22 13:07	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			06/06/22 13:07	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			06/06/22 13:07	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			06/06/22 13:07	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/06/22 13:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/06/22 13:07	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			06/06/22 13:07	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			06/06/22 13:07	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			06/06/22 13:07	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/22 13:07	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			06/06/22 13:07	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			06/06/22 13:07	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/06/22 13:07	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			06/06/22 13:07	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			06/06/22 13:07	1
Ethylbenzene	ND		0.50	0.084	ug/L			06/06/22 13:07	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			06/06/22 13:07	1
2-Hexanone	ND		2.0	0.17	ug/L			06/06/22 13:07	1
Isopropylbenzene	ND		0.50	0.11	ug/L			06/06/22 13:07	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			06/06/22 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			06/06/22 13:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/06/22 13:07	1
Methylene Chloride	ND		1.0	0.16	ug/L			06/06/22 13:07	1
Naphthalene	ND		1.0	0.48	ug/L			06/06/22 13:07	1
N-Propylbenzene	ND		1.0	0.11	ug/L			06/06/22 13:07	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-593081/10
Matrix: Water
Analysis Batch: 593081

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.13	ug/L			06/06/22 13:07	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/06/22 13:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			06/06/22 13:07	1
Tetrachloroethene	ND		0.50	0.10	ug/L			06/06/22 13:07	1
Toluene	ND		0.50	0.095	ug/L			06/06/22 13:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			06/06/22 13:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			06/06/22 13:07	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			06/06/22 13:07	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			06/06/22 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/06/22 13:07	1
Trichloroethene	ND		0.50	0.10	ug/L			06/06/22 13:07	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			06/06/22 13:07	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			06/06/22 13:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			06/06/22 13:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			06/06/22 13:07	1
Vinyl acetate	ND		2.0	0.19	ug/L			06/06/22 13:07	1
Vinyl chloride	ND		0.50	0.18	ug/L			06/06/22 13:07	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			06/06/22 13:07	1
o-Xylene	ND		0.50	0.14	ug/L			06/06/22 13:07	1
Xylenes, Total	ND		0.50	0.27	ug/L			06/06/22 13:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		69 - 129		06/06/22 13:07	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 126		06/06/22 13:07	1
Toluene-d8 (Surr)	101		67 - 127		06/06/22 13:07	1
Dibromofluoromethane (Surr)	104		68 - 128		06/06/22 13:07	1

Lab Sample ID: LCS 320-593081/5
Matrix: Water
Analysis Batch: 593081

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	55.0		ug/L		110	45 - 151
Benzene	20.0	20.6		ug/L		103	67 - 127
Bromobenzene	20.0	19.9		ug/L		100	68 - 128
Bromochloromethane	20.0	21.7		ug/L		109	69 - 129
Bromodichloromethane	20.0	21.0		ug/L		105	69 - 129
Bromoform	20.0	19.4		ug/L		97	64 - 134
Bromomethane	20.0	18.8		ug/L		94	65 - 125
2-Butanone (MEK)	50.0	50.5		ug/L		101	66 - 126
n-Butylbenzene	20.0	20.5		ug/L		103	70 - 130
sec-Butylbenzene	20.0	20.4		ug/L		102	69 - 129
tert-Butylbenzene	20.0	20.9		ug/L		105	68 - 128
Carbon disulfide	20.0	19.5		ug/L		98	66 - 126
Carbon tetrachloride	20.0	22.5		ug/L		113	71 - 131
Chlorobenzene	20.0	20.0		ug/L		100	66 - 126
Chloroethane	20.0	19.5		ug/L		98	67 - 127
Chloroform	20.0	21.4		ug/L		107	68 - 128

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-593081/5
Matrix: Water
Analysis Batch: 593081

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	20.8		ug/L		104	64 - 124
2-Chlorotoluene	20.0	20.5		ug/L		102	66 - 126
4-Chlorotoluene	20.0	20.6		ug/L		103	67 - 127
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	58 - 139
1,2-Dibromoethane (EDB)	20.0	19.6		ug/L		98	69 - 129
Dibromochloromethane	20.0	19.9		ug/L		99	70 - 130
Dibromomethane	20.0	21.8		ug/L		109	68 - 128
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	67 - 127
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	66 - 126
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	66 - 126
Dichlorodifluoromethane	20.0	16.6		ug/L		83	53 - 122
1,1-Dichloroethane	20.0	20.8		ug/L		104	67 - 127
1,2-Dichloroethane	20.0	22.3		ug/L		111	66 - 126
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	67 - 127
trans-1,2-Dichloroethene	20.0	21.1		ug/L		106	68 - 128
1,1-Dichloroethene	20.0	19.7		ug/L		99	69 - 129
1,2-Dichloropropane	20.0	20.1		ug/L		100	69 - 129
1,3-Dichloropropane	20.0	19.5		ug/L		97	67 - 127
2,2-Dichloropropane	20.0	21.5		ug/L		107	67 - 127
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	70 - 130
trans-1,3-Dichloropropene	20.0	21.3		ug/L		106	70 - 130
1,1-Dichloropropene	20.0	20.5		ug/L		102	69 - 129
Ethylbenzene	20.0	20.2		ug/L		101	67 - 127
Hexachlorobutadiene	20.0	18.5		ug/L		92	72 - 134
2-Hexanone	50.0	46.4		ug/L		93	72 - 132
Isopropylbenzene	20.0	19.9		ug/L		99	69 - 129
p-Isopropyltoluene	20.0	20.5		ug/L		103	69 - 129
4-Methyl-2-pentanone (MIBK)	50.0	49.2		ug/L		98	70 - 130
Methyl tert-butyl ether	20.0	20.9		ug/L		105	67 - 127
Methylene Chloride	20.0	20.1		ug/L		101	67 - 127
Naphthalene	20.0	18.3		ug/L		91	60 - 144
N-Propylbenzene	20.0	21.4		ug/L		107	68 - 128
Styrene	20.0	20.8		ug/L		104	69 - 129
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	69 - 129
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		95	68 - 128
Tetrachloroethene	20.0	20.2		ug/L		101	69 - 129
Toluene	20.0	21.1		ug/L		105	68 - 128
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	58 - 145
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	66 - 135
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	69 - 129
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	69 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.6		ug/L		98	69 - 129
Trichloroethene	20.0	20.1		ug/L		101	69 - 129
Trichlorofluoromethane	20.0	22.7		ug/L		113	69 - 129
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	68 - 128
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	68 - 128
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		108	68 - 128
Vinyl acetate	20.0	23.4		ug/L		117	62 - 140

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-593081/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 593081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.8		ug/L		99	65 - 125
m-Xylene & p-Xylene	20.0	21.0		ug/L		105	67 - 127
o-Xylene	20.0	20.3		ug/L		102	68 - 128
Xylenes, Total	40.0	41.3		ug/L		103	68 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		69 - 129
1,2-Dichloroethane-d4 (Surr)	98		66 - 126
Toluene-d8 (Surr)	102		67 - 127
Dibromofluoromethane (Surr)	103		68 - 128

Lab Sample ID: LCSD 320-593081/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 593081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	50.0	54.4		ug/L		109	45 - 151	1	49
Benzene	20.0	21.2		ug/L		106	67 - 127	3	21
Bromobenzene	20.0	20.5		ug/L		102	68 - 128	3	17
Bromochloromethane	20.0	22.5		ug/L		112	69 - 129	4	19
Bromodichloromethane	20.0	21.9		ug/L		109	69 - 129	4	20
Bromoform	20.0	20.2		ug/L		101	64 - 134	4	16
Bromomethane	20.0	18.4		ug/L		92	65 - 125	2	40
2-Butanone (MEK)	50.0	52.7		ug/L		105	66 - 126	4	34
n-Butylbenzene	20.0	21.5		ug/L		107	70 - 130	4	25
sec-Butylbenzene	20.0	21.4		ug/L		107	69 - 129	5	19
tert-Butylbenzene	20.0	21.7		ug/L		109	68 - 128	4	19
Carbon disulfide	20.0	20.1		ug/L		101	66 - 126	3	26
Carbon tetrachloride	20.0	24.0		ug/L		120	71 - 131	7	25
Chlorobenzene	20.0	20.7		ug/L		104	66 - 126	4	15
Chloroethane	20.0	20.5		ug/L		102	67 - 127	5	40
Chloroform	20.0	22.3		ug/L		112	68 - 128	4	22
Chloromethane	20.0	21.5		ug/L		108	64 - 124	4	25
2-Chlorotoluene	20.0	21.5		ug/L		107	66 - 126	5	19
4-Chlorotoluene	20.0	21.2		ug/L		106	67 - 127	3	19
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/L		94	58 - 139	1	33
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	69 - 129	5	15
Dibromochloromethane	20.0	21.1		ug/L		105	70 - 130	6	17
Dibromomethane	20.0	22.5		ug/L		113	68 - 128	3	17
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	67 - 127	0	19
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	66 - 126	3	17
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	66 - 126	3	15
Dichlorodifluoromethane	20.0	17.2		ug/L		86	53 - 122	3	51
1,1-Dichloroethane	20.0	21.9		ug/L		110	67 - 127	5	21
1,2-Dichloroethane	20.0	22.9		ug/L		115	66 - 126	3	25
cis-1,2-Dichloroethene	20.0	21.9		ug/L		109	67 - 127	4	18
trans-1,2-Dichloroethene	20.0	21.9		ug/L		110	68 - 128	4	20
1,1-Dichloroethene	20.0	21.0		ug/L		105	69 - 129	6	22

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-593081/6
Matrix: Water
Analysis Batch: 593081

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	20.0	21.4		ug/L		107	69 - 129	6	27
1,3-Dichloropropane	20.0	20.6		ug/L		103	67 - 127	6	15
2,2-Dichloropropane	20.0	23.6		ug/L		118	67 - 127	9	25
cis-1,3-Dichloropropene	20.0	21.5		ug/L		108	70 - 130	2	24
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	70 - 130	2	29
1,1-Dichloropropene	20.0	21.6		ug/L		108	69 - 129	5	20
Ethylbenzene	20.0	21.1		ug/L		106	67 - 127	4	15
Hexachlorobutadiene	20.0	20.6		ug/L		103	72 - 134	11	30
2-Hexanone	50.0	48.7		ug/L		97	72 - 132	5	31
Isopropylbenzene	20.0	21.2		ug/L		106	69 - 129	6	17
p-Isopropyltoluene	20.0	21.4		ug/L		107	69 - 129	4	18
4-Methyl-2-pentanone (MIBK)	50.0	53.4		ug/L		107	70 - 130	8	33
Methyl tert-butyl ether	20.0	22.3		ug/L		112	67 - 127	6	24
Methylene Chloride	20.0	20.2		ug/L		101	67 - 127	1	20
Naphthalene	20.0	18.2		ug/L		91	60 - 144	1	48
N-Propylbenzene	20.0	22.0		ug/L		110	68 - 128	2	26
Styrene	20.0	21.8		ug/L		109	69 - 129	5	15
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		104	69 - 129	5	23
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	68 - 128	9	27
Tetrachloroethene	20.0	21.4		ug/L		107	69 - 129	6	18
Toluene	20.0	21.9		ug/L		110	68 - 128	4	20
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	58 - 145	3	45
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	66 - 135	1	40
1,1,1-Trichloroethane	20.0	23.3		ug/L		116	69 - 129	6	25
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	69 - 129	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.2		ug/L		101	69 - 129	3	40
Trichloroethene	20.0	20.8		ug/L		104	69 - 129	3	20
Trichlorofluoromethane	20.0	23.7		ug/L		118	69 - 129	4	41
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	68 - 128	3	22
1,2,4-Trimethylbenzene	20.0	21.6		ug/L		108	68 - 128	4	17
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		111	68 - 128	4	20
Vinyl acetate	20.0	24.7		ug/L		124	62 - 140	6	30
Vinyl chloride	20.0	20.6		ug/L		103	65 - 125	4	33
m-Xylene & p-Xylene	20.0	22.1		ug/L		111	67 - 127	5	15
o-Xylene	20.0	21.4		ug/L		107	68 - 128	5	18
Xylenes, Total	40.0	43.5		ug/L		109	68 - 128	5	16

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	92		69 - 129
1,2-Dichloroethane-d4 (Surr)	98		66 - 126
Toluene-d8 (Surr)	101		67 - 127
Dibromofluoromethane (Surr)	105		68 - 128

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-590696/1-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590696

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Acenaphthylene	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Anthracene	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzo[a]anthracene	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzo[k]fluoranthene	ND		10	0.96	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzo[g,h,i]perylene	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzo[a]pyrene	ND		10	0.68	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzoic acid	ND		50	20	ug/L		05/26/22 13:37	06/03/22 15:19	1
Benzyl alcohol	ND		10	2.6	ug/L		05/26/22 13:37	06/03/22 15:19	1
Bis(2-chloroethoxy)methane	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
bis (2-chloroisopropyl) ether	ND		10	1.3	ug/L		05/26/22 13:37	06/03/22 15:19	1
Bis(2-ethylhexyl) phthalate	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Bromophenyl phenyl ether	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Butyl benzyl phthalate	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Chloroaniline	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Chloro-3-methylphenol	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Chloronaphthalene	ND		10	1.3	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Chlorophenol	ND		10	1.6	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Chlorophenyl phenyl ether	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Chrysene	ND		10	0.61	ug/L		05/26/22 13:37	06/03/22 15:19	1
Dibenz(a,h)anthracene	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Dibenzofuran	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Di-n-butyl phthalate	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
1,2-Dichlorobenzene	ND		10	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
1,3-Dichlorobenzene	ND		10	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
1,4-Dichlorobenzene	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
3,3'-Dichlorobenzidine	ND		50	0.96	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4-Dichlorophenol	ND		10	2.6	ug/L		05/26/22 13:37	06/03/22 15:19	1
Diethyl phthalate	ND		10	0.93	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4-Dimethylphenol	ND		10	2.2	ug/L		05/26/22 13:37	06/03/22 15:19	1
Dimethyl phthalate	ND		10	0.88	ug/L		05/26/22 13:37	06/03/22 15:19	1
4,6-Dinitro-2-methylphenol	ND		50	2.2	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4-Dinitrophenol	ND		50	20	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Di-n-octyl phthalate	ND		10	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
Fluoranthene	ND		10	0.65	ug/L		05/26/22 13:37	06/03/22 15:19	1
Fluorene	ND		10	0.93	ug/L		05/26/22 13:37	06/03/22 15:19	1
Hexachlorobenzene	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Hexachlorobutadiene	ND		10	1.3	ug/L		05/26/22 13:37	06/03/22 15:19	1
Hexachlorocyclopentadiene	ND		50	5.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Hexachloroethane	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Indeno[1,2,3-cd]pyrene	ND		10	3.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Isophorone	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Methylnaphthalene	ND		10	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Methylphenol	ND		10	0.93	ug/L		05/26/22 13:37	06/03/22 15:19	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-590696/1-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol & 4-Methylphenol	ND		20	1.2	ug/L		05/26/22 13:37	06/03/22 15:19	1
Naphthalene	ND		10	1.3	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Nitroaniline	ND		50	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
3-Nitroaniline	ND		50	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Nitroaniline	ND		50	1.5	ug/L		05/26/22 13:37	06/03/22 15:19	1
Nitrobenzene	ND		10	1.6	ug/L		05/26/22 13:37	06/03/22 15:19	1
2-Nitrophenol	ND		10	1.9	ug/L		05/26/22 13:37	06/03/22 15:19	1
4-Nitrophenol	ND		50	6.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
N-Nitrosodiphenylamine	ND		10	0.54	ug/L		05/26/22 13:37	06/03/22 15:19	1
N-Nitrosodi-n-propylamine	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Pentachlorophenol	ND		50	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Phenanthrene	ND		10	1.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
Phenol	ND		10	1.1	ug/L		05/26/22 13:37	06/03/22 15:19	1
Pyrene	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
Pyridine	ND		20	0.80	ug/L		05/26/22 13:37	06/03/22 15:19	1
1,2,4-Trichlorobenzene	ND		10	1.4	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4,5-Trichlorophenol	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1
2,4,6-Trichlorophenol	ND		10	2.0	ug/L		05/26/22 13:37	06/03/22 15:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		55 - 140	05/26/22 13:37	06/03/22 15:19	1
2-Fluorobiphenyl (Surr)	87		57 - 98	05/26/22 13:37	06/03/22 15:19	1
2-Fluorophenol (Surr)	72		47 - 87	05/26/22 13:37	06/03/22 15:19	1
Nitrobenzene-d5 (Surr)	89		64 - 104	05/26/22 13:37	06/03/22 15:19	1
Phenol-d5 (Surr)	53		29 - 69	05/26/22 13:37	06/03/22 15:19	1
Terphenyl-d14 (Surr)	95		70 - 118	05/26/22 13:37	06/03/22 15:19	1

Lab Sample ID: LCS 320-590696/2-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	95.8		ug/L		96	63 - 103
Acenaphthylene	100	88.1		ug/L		88	60 - 100
Anthracene	100	96.5		ug/L		97	63 - 103
Benzo[a]anthracene	100	94.2		ug/L		94	66 - 109
Benzo[b]fluoranthene	100	97.0		ug/L		97	69 - 109
Benzo[k]fluoranthene	100	98.1		ug/L		98	67 - 107
Benzo[g,h,i]perylene	100	101		ug/L		101	63 - 113
Benzo[a]pyrene	100	89.6		ug/L		90	69 - 109
Benzoic acid	200	71.3		ug/L		36	10 - 63
Benzyl alcohol	100	93.7		ug/L		94	63 - 105
Bis(2-chloroethoxy)methane	100	90.3		ug/L		90	62 - 102
Bis(2-chloroethyl)ether	100	89.1		ug/L		89	62 - 102
bis (2-chloroisopropyl) ether	100	79.6		ug/L		80	53 - 100
Bis(2-ethylhexyl) phthalate	100	96.7		ug/L		97	70 - 117
4-Bromophenyl phenyl ether	100	95.8		ug/L		96	64 - 111
Butyl benzyl phthalate	100	102		ug/L		102	69 - 116

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-590696/2-A

Matrix: Water

Analysis Batch: 592475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 590696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	100	78.1		ug/L		78	45 - 97
4-Chloro-3-methylphenol	100	100		ug/L		100	70 - 111
2-Chloronaphthalene	100	90.6		ug/L		91	60 - 100
2-Chlorophenol	100	89.6		ug/L		90	63 - 103
4-Chlorophenyl phenyl ether	100	94.0		ug/L		94	61 - 112
Chrysene	100	91.4		ug/L		91	64 - 111
Dibenz(a,h)anthracene	100	98.2		ug/L		98	65 - 112
Dibenzofuran	100	94.5		ug/L		94	62 - 103
Di-n-butyl phthalate	100	98.9		ug/L		99	67 - 107
1,2-Dichlorobenzene	100	78.8		ug/L		79	52 - 92
1,3-Dichlorobenzene	100	75.6		ug/L		76	50 - 90
1,4-Dichlorobenzene	100	76.6		ug/L		77	50 - 90
3,3'-Dichlorobenzidine	100	86.6		ug/L		87	52 - 114
2,4-Dichlorophenol	100	98.1		ug/L		98	66 - 106
Diethyl phthalate	100	96.4		ug/L		96	64 - 117
2,4-Dimethylphenol	100	96.2		ug/L		96	65 - 107
Dimethyl phthalate	100	95.2		ug/L		95	65 - 112
4,6-Dinitro-2-methylphenol	200	188		ug/L		94	63 - 118
2,4-Dinitrophenol	200	181		ug/L		90	49 - 128
2,4-Dinitrotoluene	100	102		ug/L		102	68 - 120
2,6-Dinitrotoluene	100	101		ug/L		101	68 - 116
Di-n-octyl phthalate	100	99.2		ug/L		99	68 - 117
Fluoranthene	100	97.7		ug/L		98	67 - 107
Fluorene	100	96.7		ug/L		97	62 - 109
Hexachlorobenzene	100	98.2		ug/L		98	56 - 124
Hexachlorobutadiene	100	77.9		ug/L		78	45 - 96
Hexachlorocyclopentadiene	100	62.0		ug/L		62	23 - 85
Hexachloroethane	100	72.8		ug/L		73	48 - 88
Indeno[1,2,3-cd]pyrene	100	103		ug/L		103	65 - 118
Isophorone	100	94.9		ug/L		95	62 - 102
2-Methylnaphthalene	100	87.1		ug/L		87	58 - 98
2-Methylphenol	100	89.3		ug/L		89	63 - 103
3-Methylphenol & 4-Methylphenol	100	87.8		ug/L		88	60 - 100
Naphthalene	100	88.4		ug/L		88	56 - 96
2-Nitroaniline	100	104		ug/L		104	61 - 127
3-Nitroaniline	100	77.8		ug/L		78	46 - 103
4-Nitroaniline	100	99.7		ug/L		100	67 - 112
Nitrobenzene	100	94.3		ug/L		94	64 - 104
2-Nitrophenol	100	99.4		ug/L		99	67 - 108
4-Nitrophenol	200	124		ug/L		62	32 - 89
N-Nitrosodiphenylamine	100	96.2		ug/L		96	64 - 104
N-Nitrosodi-n-propylamine	100	95.0		ug/L		95	63 - 108
Pentachlorophenol	200	190		ug/L		95	57 - 115
Phenanthrene	100	96.2		ug/L		96	62 - 103
Phenol	100	55.9		ug/L		56	32 - 72
Pyrene	100	94.1		ug/L		94	63 - 109
Pyridine	200	109		ug/L		54	41 - 81
1,2,4-Trichlorobenzene	100	85.9		ug/L		86	53 - 93
2,4,5-Trichlorophenol	100	97.7		ug/L		98	66 - 119

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-590696/2-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	100	99.2		ug/L		99	68 - 119
Surrogate							
		LCS %Recovery	LCS Qualifier				Limits
2,4,6-Tribromophenol (Surr)		104					55 - 140
2-Fluorobiphenyl (Surr)		92					57 - 98
2-Fluorophenol (Surr)		72					47 - 87
Nitrobenzene-d5 (Surr)		100					64 - 104
Phenol-d5 (Surr)		57					29 - 69
Terphenyl-d14 (Surr)		93					70 - 118

Lab Sample ID: LCSD 320-590696/3-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	100	94.7		ug/L		95	63 - 103	1	30
Acenaphthylene	100	89.0		ug/L		89	60 - 100	1	30
Anthracene	100	98.5		ug/L		99	63 - 103	2	30
Benzo[a]anthracene	100	95.9		ug/L		96	66 - 109	2	30
Benzo[b]fluoranthene	100	100		ug/L		100	69 - 109	3	30
Benzo[k]fluoranthene	100	101		ug/L		101	67 - 107	3	30
Benzo[g,h,i]perylene	100	104		ug/L		104	63 - 113	2	30
Benzo[a]pyrene	100	91.7		ug/L		92	69 - 109	2	30
Benzoic acid	200	74.8		ug/L		37	10 - 63	5	30
Benzyl alcohol	100	95.3		ug/L		95	63 - 105	2	30
Bis(2-chloroethoxy)methane	100	94.3		ug/L		94	62 - 102	4	30
Bis(2-chloroethyl)ether	100	89.9		ug/L		90	62 - 102	1	30
bis (2-chloroisopropyl) ether	100	81.2		ug/L		81	53 - 100	2	30
Bis(2-ethylhexyl) phthalate	100	98.2		ug/L		98	70 - 117	2	30
4-Bromophenyl phenyl ether	100	97.3		ug/L		97	64 - 111	2	30
Butyl benzyl phthalate	100	103		ug/L		103	69 - 116	1	30
4-Chloroaniline	100	73.8		ug/L		74	45 - 97	6	30
4-Chloro-3-methylphenol	100	105		ug/L		105	70 - 111	4	30
2-Chloronaphthalene	100	91.0		ug/L		91	60 - 100	0	30
2-Chlorophenol	100	91.4		ug/L		91	63 - 103	2	30
4-Chlorophenyl phenyl ether	100	96.1		ug/L		96	61 - 112	2	30
Chrysene	100	93.5		ug/L		94	64 - 111	2	30
Dibenz(a,h)anthracene	100	102		ug/L		102	65 - 112	4	30
Dibenzofuran	100	93.9		ug/L		94	62 - 103	1	30
Di-n-butyl phthalate	100	99.6		ug/L		100	67 - 107	1	30
1,2-Dichlorobenzene	100	81.8		ug/L		82	52 - 92	4	30
1,3-Dichlorobenzene	100	76.9		ug/L		77	50 - 90	2	30
1,4-Dichlorobenzene	100	79.7		ug/L		80	50 - 90	4	30
3,3'-Dichlorobenzidine	100	85.1		ug/L		85	52 - 114	2	30
2,4-Dichlorophenol	100	100		ug/L		100	66 - 106	2	30
Diethyl phthalate	100	96.7		ug/L		97	64 - 117	0	30
2,4-Dimethylphenol	100	99.5		ug/L		99	65 - 107	3	30
Dimethyl phthalate	100	97.0		ug/L		97	65 - 112	2	30

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-590696/3-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	200	187		ug/L		94	63 - 118	0	30
2,4-Dinitrophenol	200	182		ug/L		91	49 - 128	1	30
2,4-Dinitrotoluene	100	102		ug/L		102	68 - 120	0	30
2,6-Dinitrotoluene	100	99.4		ug/L		99	68 - 116	2	30
Di-n-octyl phthalate	100	100		ug/L		100	68 - 117	1	30
Fluoranthene	100	98.8		ug/L		99	67 - 107	1	30
Fluorene	100	96.1		ug/L		96	62 - 109	1	30
Hexachlorobenzene	100	101		ug/L		101	56 - 124	2	30
Hexachlorobutadiene	100	79.9		ug/L		80	45 - 96	3	30
Hexachlorocyclopentadiene	100	62.3		ug/L		62	23 - 85	1	30
Hexachloroethane	100	75.0		ug/L		75	48 - 88	3	30
Indeno[1,2,3-cd]pyrene	100	106		ug/L		106	65 - 118	3	30
Isophorone	100	97.8		ug/L		98	62 - 102	3	30
2-Methylnaphthalene	100	88.4		ug/L		88	58 - 98	1	30
2-Methylphenol	100	92.1		ug/L		92	63 - 103	3	30
3-Methylphenol & 4-Methylphenol	100	90.2		ug/L		90	60 - 100	3	30
Naphthalene	100	90.1		ug/L		90	56 - 96	2	30
2-Nitroaniline	100	102		ug/L		102	61 - 127	2	30
3-Nitroaniline	100	77.1		ug/L		77	46 - 103	1	30
4-Nitroaniline	100	100		ug/L		100	67 - 112	0	30
Nitrobenzene	100	96.1		ug/L		96	64 - 104	2	30
2-Nitrophenol	100	103		ug/L		103	67 - 108	4	30
4-Nitrophenol	200	128		ug/L		64	32 - 89	3	30
N-Nitrosodiphenylamine	100	97.1		ug/L		97	64 - 104	1	30
N-Nitrosodi-n-propylamine	100	97.4		ug/L		97	63 - 108	3	30
Pentachlorophenol	200	190		ug/L		95	57 - 115	0	30
Phenanthrene	100	97.9		ug/L		98	62 - 103	2	30
Phenol	100	57.6		ug/L		58	32 - 72	3	30
Pyrene	100	95.9		ug/L		96	63 - 109	2	30
Pyridine	200	115		ug/L		58	41 - 81	6	30
1,2,4-Trichlorobenzene	100	89.0		ug/L		89	53 - 93	4	30
2,4,5-Trichlorophenol	100	98.7		ug/L		99	66 - 119	1	30
2,4,6-Trichlorophenol	100	99.5		ug/L		99	68 - 119	0	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	104		55 - 140
2-Fluorobiphenyl (Surr)	91		57 - 98
2-Fluorophenol (Surr)	75		47 - 87
Nitrobenzene-d5 (Surr)	102		64 - 104
Phenol-d5 (Surr)	59		29 - 69
Terphenyl-d14 (Surr)	95		70 - 118

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-577106/1-A
Matrix: Water
Analysis Batch: 577107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577106

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromo-3-Chloropropane	ND		0.020	0.0068	ug/L		06/03/22 15:47	06/03/22 20:22	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		06/03/22 15:47	06/03/22 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dibromopropane	100		70 - 130			06/03/22 15:47	06/03/22 20:22	1	

Lab Sample ID: LCS 280-577106/2-A
Matrix: Water
Analysis Batch: 577107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577106

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,2-Dibromo-3-Chloropropane	0.250	0.254		ug/L		101	60 - 140
1,2-Dibromoethane	0.250	0.227		ug/L		91	60 - 140
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dibromopropane	94		70 - 130				

Lab Sample ID: LCSD 280-577106/3-A
Matrix: Water
Analysis Batch: 577107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577106

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier					1	10
1,2-Dibromo-3-Chloropropane	0.250	0.257		ug/L		103	60 - 140	1	10
1,2-Dibromoethane	0.250	0.224		ug/L		89	60 - 140	1	10
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dibromopropane	91		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-590460/3
Matrix: Water
Analysis Batch: 590460

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	ND		0.50	0.088	mg/L			05/25/22 15:09	1
Chloride	ND		1.0	0.37	mg/L			05/25/22 15:09	1
Sulfate	ND		1.0	0.36	mg/L			05/25/22 15:09	1

Lab Sample ID: LCS 320-590460/4
Matrix: Water
Analysis Batch: 590460

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Bromide	7.50	7.63		mg/L		102	90 - 110
Chloride	7.50	7.60		mg/L		101	90 - 110
Sulfate	7.50	7.48		mg/L		100	90 - 110

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 320-590461/3
Matrix: Water
Analysis Batch: 590461

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.25	0.10	mg/L			05/25/22 15:09	1
Nitrite as N	ND		0.25	0.050	mg/L			05/25/22 15:09	1

Lab Sample ID: LCS 320-590461/4
Matrix: Water
Analysis Batch: 590461

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.50	1.48		mg/L		99	90 - 110
Nitrite as N	1.52	1.59		mg/L		104	90 - 110

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-592347/1-A
Matrix: Water
Analysis Batch: 592570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0025	mg/L		06/02/22 15:44	06/03/22 11:45	1
Arsenic	ND		0.020	0.012	mg/L		06/02/22 15:44	06/03/22 11:45	1
Calcium	ND		0.50	0.050	mg/L		06/02/22 15:44	06/03/22 11:45	1
Magnesium	ND		0.50	0.040	mg/L		06/02/22 15:44	06/03/22 11:45	1
Potassium	ND		1.0	0.093	mg/L		06/02/22 15:44	06/03/22 11:45	1

Lab Sample ID: MB 320-592347/1-A
Matrix: Water
Analysis Batch: 593063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.655		1.0	0.25	mg/L		06/02/22 15:44	06/03/22 15:42	1

Lab Sample ID: LCS 320-592347/2-A
Matrix: Water
Analysis Batch: 592570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.250	0.229		mg/L		92	80 - 120
Arsenic	0.500	0.475		mg/L		95	80 - 120
Calcium	25.0	24.2		mg/L		97	80 - 120
Magnesium	25.0	23.3		mg/L		93	80 - 120
Potassium	25.0	22.4		mg/L		90	80 - 120

Lab Sample ID: LCS 320-592347/2-A
Matrix: Water
Analysis Batch: 593063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	25.0	24.1		mg/L		96	80 - 120

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 320-594684/1-A
Matrix: Water
Analysis Batch: 595213

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.020	mg/L		06/10/22 15:51	06/13/22 13:33	1
Manganese	ND		0.0050	0.0025	mg/L		06/10/22 15:51	06/13/22 13:33	1

Lab Sample ID: LCS 320-594684/2-A
Matrix: Water
Analysis Batch: 595213

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.18		mg/L		104	80 - 120
Manganese	0.250	0.255		mg/L		102	80 - 120

Lab Sample ID: LCSD 320-594684/3-A
Matrix: Water
Analysis Batch: 595213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 594684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	5.20		mg/L		104	80 - 120	0	20
Manganese	0.250	0.248		mg/L		99	80 - 120	3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 320-592720/7
Matrix: Water
Analysis Batch: 592720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	5.0	mg/L			06/03/22 12:12	1

Lab Sample ID: LCS 320-592720/8
Matrix: Water
Analysis Batch: 592720

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

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

Lab Sample ID: LCSD 320-592720/9
Matrix: Water
Analysis Batch: 592720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	1000	987		mg/L		99	90 - 110	0	10

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

GC/MS VOA

Analysis Batch: 592098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-7	2205A62-002A Trip Blank	Total/NA	Water	8260B	
MB 320-592098/10	Method Blank	Total/NA	Water	8260B	
LCS 320-592098/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-592098/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 593081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-1	2205A62-001A WUABFFMW01	Total/NA	Water	8260B	
MB 320-593081/10	Method Blank	Total/NA	Water	8260B	
LCS 320-593081/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-593081/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 590696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-3	2205A62-001C WUABFFMW01	Total/NA	Water	3510C	
MB 320-590696/1-A	Method Blank	Total/NA	Water	3510C	
LCS 320-590696/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 320-590696/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 592475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-3	2205A62-001C WUABFFMW01	Total/NA	Water	8270C	590696
MB 320-590696/1-A	Method Blank	Total/NA	Water	8270C	590696
LCS 320-590696/2-A	Lab Control Sample	Total/NA	Water	8270C	590696
LCSD 320-590696/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	590696

GC Semi VOA

Prep Batch: 577106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-2	2205A62-001B WUABFFMW01	Total/NA	Water	8011	
320-88267-8	2205A62-002B Trip Blank	Total/NA	Water	8011	
MB 280-577106/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-577106/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-577106/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 577107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-2	2205A62-001B WUABFFMW01	Total/NA	Water	8011	577106
320-88267-8	2205A62-002B Trip Blank	Total/NA	Water	8011	577106
MB 280-577106/1-A	Method Blank	Total/NA	Water	8011	577106
LCS 280-577106/2-A	Lab Control Sample	Total/NA	Water	8011	577106
LCSD 280-577106/3-A	Lab Control Sample Dup	Total/NA	Water	8011	577106

HPLC/IC

Analysis Batch: 590460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-4	2205A62-001D WUABFFMW01	Total/NA	Water	300.0	
MB 320-590460/3	Method Blank	Total/NA	Water	300.0	

Eurofins Sacramento

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

HPLC/IC (Continued)

Analysis Batch: 590460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-590460/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 590461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-4	2205A62-001D WUABFFMW01	Total/NA	Water	300.0	
MB 320-590461/3	Method Blank	Total/NA	Water	300.0	
LCS 320-590461/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 592347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-5	2205A62-001E WUABFFMW01	Total/NA	Water	3010A	
MB 320-592347/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 592570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-5	2205A62-001E WUABFFMW01	Total/NA	Water	6010B	592347
MB 320-592347/1-A	Method Blank	Total/NA	Water	6010B	592347
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	6010B	592347

Analysis Batch: 593063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-5	2205A62-001E WUABFFMW01	Total/NA	Water	6010B	592347
MB 320-592347/1-A	Method Blank	Total/NA	Water	6010B	592347
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	6010B	592347

Prep Batch: 594684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-6	2205A62-001F WUABFFMW01	Dissolved	Water	3005A	
MB 320-594684/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 320-594684/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 320-594684/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 595213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-6	2205A62-001F WUABFFMW01	Dissolved	Water	6010B	594684
MB 320-594684/1-A	Method Blank	Total Recoverable	Water	6010B	594684
LCS 320-594684/2-A	Lab Control Sample	Total Recoverable	Water	6010B	594684
LCSD 320-594684/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	594684

General Chemistry

Analysis Batch: 592720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88267-4	2205A62-001D WUABFFMW01	Total/NA	Water	SM 2320B	
MB 320-592720/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 320-592720/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 320-592720/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Eurofins Sacramento

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-001A WUABFFMW01

Lab Sample ID: 320-88267-1

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	593081	06/06/22 20:24	SS	EET SAC

Client Sample ID: 2205A62-001B WUABFFMW01

Lab Sample ID: 320-88267-2

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35 mL	35 mL	577106	06/03/22 15:47	KSA	EET DEN
Total/NA	Analysis	8011		1			577107	06/04/22 01:55	KSA	EET DEN

Client Sample ID: 2205A62-001C WUABFFMW01

Lab Sample ID: 320-88267-3

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			837.4 mL	1 mL	590696	05/26/22 13:37	AS	EET SAC
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	592475	06/03/22 16:58	Y1S	EET SAC

Client Sample ID: 2205A62-001D WUABFFMW01

Lab Sample ID: 320-88267-4

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	590460	05/25/22 23:55	Y1S	EET SAC
Total/NA	Analysis	300.0		1	10 mL	10 mL	590461	05/25/22 23:55	Y1S	EET SAC
Total/NA	Analysis	SM 2320B		1			592720	06/03/22 13:28	KMW	EET SAC

Client Sample ID: 2205A62-001E WUABFFMW01

Lab Sample ID: 320-88267-5

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	592347	06/02/22 15:44	JP	EET SAC
Total/NA	Analysis	6010B		1			592570	06/03/22 12:20	SP	EET SAC
Total/NA	Prep	3010A			50 mL	50 mL	592347	06/02/22 15:44	JP	EET SAC
Total/NA	Analysis	6010B		1			593063	06/03/22 16:09	SP	EET SAC

Client Sample ID: 2205A62-001F WUABFFMW01

Lab Sample ID: 320-88267-6

Date Collected: 05/24/22 10:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	594684	06/10/22 15:51	JP	EET SAC
Dissolved	Analysis	6010B		1			595213	06/13/22 13:52	SP	EET SAC

Eurofins Sacramento

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Client Sample ID: 2205A62-002A Trip Blank

Lab Sample ID: 320-88267-7

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	592098	06/02/22 13:01	AP1	EET SAC

Client Sample ID: 2205A62-002B Trip Blank

Lab Sample ID: 320-88267-8

Date Collected: 05/24/22 00:00

Matrix: Water

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			34.7 mL	35 mL	577106	06/03/22 15:47	KSA	EET DEN
Total/NA	Analysis	8011		1			577107	06/04/22 02:19	KSA	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	06-19-22
ANAB	Dept. of Defense ELAP	L2468	07-13-22
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-22
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-22
Louisiana (All)	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23
Nevada	State	CA00044	07-31-22
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
West Virginia (DW)	State	9930C	12-31-22
Wisconsin	State	998204680	08-12-22
Wyoming	State Program	8TMS-L	01-28-19 *

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23

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

Eurofins Sacramento

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Laboratory: Eurofins Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	06-28-22
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	08-31-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET SAC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAC
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET SAC
6010B	Metals (ICP)	SW846	EET SAC
SM 2320B	Alkalinity	SM	EET SAC
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAC
3010A	Preparation, Total Metals	SW846	EET SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET SAC
8011	Microextraction	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88267-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88267-1	2205A62-001A WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-2	2205A62-001B WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-3	2205A62-001C WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-4	2205A62-001D WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-5	2205A62-001E WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-6	2205A62-001F WUABFFMW01	Water	05/24/22 10:00	05/25/22 10:30
320-88267-7	2205A62-002A Trip Blank	Water	05/24/22 00:00	05/25/22 10:30
320-88267-8	2205A62-002B Trip Blank	Water	05/24/22 00:00	05/25/22 10:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



CHAIN OF CUSTODY RECORD

PAGE: **1** OF: **1**

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975
 FAX: 505-345-4107
 Website: www.hallenvironmental.com

SUB CONTRACTOR: **Eurofins Sacramento** COMPANY: _____
 ADDRESS: **880 Riverside Parkway**
 CITY, STATE, ZIP: **West Sacramento, CA 95605**
 PHONE: _____ FAX: **(916) 373-5600**
 ACCOUNT #: _____ EMAIL: _____

ITEM	SAMPLE	CLIENT SAMPLE ID	BOITLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2205A62-001A	WUABFFMW01	VOAHGCL2	Groundw star	5/24/2022 10:00:00 AM	3	See Attached- ELAP Cert:2897
2	2205A62-001B	WUABFFMW01	VOANA2S20	Groundw star	5/24/2022 10:00:00 AM	2	See Attached- ELAP Cert:2897
3	2205A62-001C	WUABFFMW01	1LAMGU	Groundw star	5/24/2022 10:00:00 AM	1	See Attached- ELAP Cert:2897
4	2205A62-001D	WUABFFMW01	500ML COMBO	Groundw star	5/24/2022 10:00:00 AM	2	See Attached- ELAP Cert:2897
5	2205A62-001E	WUABFFMW01	125HDPHNO	Groundw star	5/24/2022 10:00:00 AM	1	See Attached- ELAP Cert:2897
6	2205A62-001F	WUABFFMW01	125HDPHNO	Groundw star	5/24/2022 10:00:00 AM	1	See Attached- ELAP Cert:2897
7	2205A62-002A	Trip Blank	VOAHGCL2	Trip blank	5/24/2022	2	See Attached- ELAP Cert:2897
8	2205A62-002B	Trip Blank	VOANA2S20	Trip blank	5/24/2022	1	See Attached- ELAP Cert:2897



SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: _____ Date: 5/24/2022 Time: 1:01 PM
 Received By: *[Signature]* Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 TAT: _____ Standard RUSH Next BD 2nd BD 3rd BD
 REPORT TRANSMITTAL DESIRED:
 HARD COPY (extra cost) FAX EMAIL ONLINE
 FOR LAB USE ONLY
 Temp of samples: 30.0 C Attempt to Cool? _____
 Comments: _____



ELAP CERT. 2897

Analyze the following:

EPA 8260B

EPA 8270

EPA 504.1 EDB

SM2320B

EPA 300.0 – Br, Cl, SO₄, NO₂, NO₃

6010C – As, Pb, Ca, Mg, K, Na

6010C Dissolved - Fe + Mn

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Eurofins Sacramento
 880 Riverside Parkway
 West Sacramento, CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Caparas, Criselda	Carrier Tracking No(s): 320-271722.1
Client Contact: Shipping/Receiving		E-Mail: Criselda.Caparas@et.eurofins.com	Page 1 of 1
Company: TestAmerica Laboratories, Inc.		State of Origin: New Mexico	Job #: 320-88267-1
Address: 4955 Yarrow Street,		Preservation Codes:	
City: Arvada	State, Zip: CO, 80002	A - HCL	M - Hexane
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	E-mail:	B - NaOH	N - None
PO #:	WO #:	C - Zn Acetate	O - AsNaO2
Project #: 32020122	SSONV#:	D - Nitric Acid	P - Na2OAS
Site: KIRKLAND AFB		E - NaHSO4	Q - Na2SO3
		F - MeOH	R - Na2S2O3
		G - Amchlor	S - H2SO4
		H - Ascorbic Acid	T - TSP Dodecahydrate
		I - Ice	U - Acetone
		J - DI Water	V - MCAA
		K - EDTA	W - pH 4-5
		L - EDA	Y - Trizma
		Other:	Z - other (specify)
Due Date Requested: 6/15/2022		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		801/8011 Prep Standard 8011 list <input checked="" type="checkbox"/>	
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Special Instructions/Note:	
Matrix (W=water, S=solid, O=water/oil, BT=TISSUE, AS=AN)			
Sample Type (C=Comp, G=grab)	Sample Time	Sample Date	Sample Date
Water	10:00 Mountain	5/24/22	5/24/22
Water	Mountain	5/24/22	5/24/22
<p>Sample Identification - Client ID (Lab ID)</p> <p>2205A62-001B WUABFFMW01 (320-88267-2)</p> <p>2205A62-002B Trip Blank (320-88267-8)</p>			
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Primary Deliverable Rank: 0</p>			
<p>Empty Kit Relinquished by: <i>WMA</i></p> <p>Relinquished by: <i>WMA</i></p> <p>Relinquished by:</p> <p>Relinquished by:</p>			
Date/Time: 5/26/22 16:30		Date/Time: 5/27/22 10:00	
Date/Time:		Date/Time:	
Date/Time:		Date/Time:	
Company: GESA		Company: GESA	
Company:		Company:	
Company:		Company:	
Custody Seal No.: 171928, 171956, 17199		Cooler Temperature(s) °C and Other Remarks: 0.9, 1.8, 1.6 REL CF-FO.1	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Ver: 06/08/2021	



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-88267-1

Login Number: 88267

List Source: Eurofins Sacramento

List Number: 1

Creator: Her, David A

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



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-88267-1

Login Number: 88267

List Number: 2

Creator: Lee, Jerry

List Source: Eurofins Denver

List Creation: 05/27/22 08:39 PM

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

Sample Log-In Check List

Client Name: Intera, Inc. Work Order Number: 2205A62 RcptNo: 1

Received By: **Kasandra Payan** 5/24/2022 11:50:00 AM *KP*
 Completed By: **Tracy Casarrubias** 5/24/2022 12:07:58 PM
 Reviewed By: *jn 5/24/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Samples were collected the same day and chilled. Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
 (≤2 or >12 unless noted)
 Adjusted? NO
 Checked by: KPG 5.24.22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.3	Good	Not Present			

Chain-of-Custody Record

Client: INTERA

Mailing Address: 2440 Louisiana Blvd
ABQ, NM 87110 Suite 700
Phone #: 505-246-1600

email or Fax#: jtracy@intera.com

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: Az Compliance NELAC Other

OEEDD (Type) Excel

of Coolers: 1

Cooler Temp (including CF): 11.9-0.1:11.3 (°C)

Container Type and #

Preservative Type

HEAL No.

3 vials
2 vials
1 L Amber
250 mL plus
125 mL plus
125 mL plus
500 mL plus

HCL
Na Thiosulfate
none
HNO₃
HNO₃ (filtered)
H₂SO₄
none

2205A102
001

5/24/22

5/24/22

5/24 1000

AB

Trip Blank

3 vials

HCL Thiosulfate

002

5/24/22 1149

Lynnda Price

5/24/22 1149

Lynnda Price

5/24/22 11:50

000

5/24/22

11:50

000

5/24/22

11:50

Turn-Around Time:

Standard Rush

Project Name:

Data Gap Well

Project #:

ABWUA, 0009, KAFB

Project Manager:

Joe Tracy

Sampler: L. Price/B. Archuleta

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 11.9-0.1:11.3 (°C)

Container Type and #

Preservative Type

HEAL No.

3 vials
2 vials
1 L Amber
250 mL plus
125 mL plus
125 mL plus
500 mL plus

HCL
Na Thiosulfate
none
HNO₃
HNO₃ (filtered)
H₂SO₄
none

2205A102
001

5/24/22

5/24/22

5/24 1000

AB

Trip Blank

3 vials

HCL Thiosulfate

002

5/24/22 1149

Lynnda Price

5/24/22 11:50

000

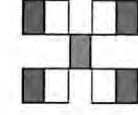
5/24/22

11:50

000

5/24/22

11:50



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Alkalinity 5M.2320B

Amions Esob. No. 2, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100

Total Metals 6010 (As, Pb, Cd, Ni, Cr, Mn)

Diss Metals 6010 (Fe, Mn)

Remarks:

Please Overnight to Eurofins (Sacramento, CA)
(ELAP Cert No. 2897) Total Metals = As, Pb, Cu, Mg, K, & Na.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 12, 2022

Joseph Tracy

Intera, Inc.

2440 Louisiana Blvd NE Suite 700

Albuquerque, NM 87110

TEL: (505) 246-1600

FAX: (505) 246-2600

RE: Data Gap Well

OrderNo.: 2205C81

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/27/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-88427-1
Client Project/Site: KIRKLAND AFB
Revision: 1

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/11/2022 5:26:24 PM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	26
Lab Chronicle	28
Certification Summary	30
Method Summary	32
Sample Summary	33
Chain of Custody	34
Receipt Checklists	39

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Eurofins Sacramento

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Job ID: 320-88427-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-88427-1

Comments

Revised report on 10/11/2022 to add additional metals (Fe and Mn) on 6010 Metals.
No additional comments.

Receipt

The samples were received on 5/28/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270C: The laboratory control sample (LCS) for preparation batch 320-591745 and analytical batch 320-597878 recovery outside control limits for the following analyte: Benzoic acid. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-591745 and analytical batch 320-597878 recovered outside control limits for the following analyte: Benzoic acid.

Method 8270C: The method blank for preparation batch 320-591745 contained Bis(2-ethylhexyl) phthalate above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and re-analysis of samples were not performed.

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

GC Semi VOA

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

Metals

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

General Chemistry

Method 300.0: The following sample in analytical batch 320-591597 was received after the holding time had expired. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 2205C81-001D WUABFFMW01 (320-88427-4).

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8270C aqueous in preparation batch 320-591745.

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 2205C81-001C WUABFFMW01 (320-88427-3). Nominal volume required by method is 1000 mL. This sample is associated with method 8270C aqueous in preparation batch 320-591745.

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

VOA Prep

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

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001A WUABFFMW01

Lab Sample ID: 320-88427-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Toluene	0.47		1.0	0.30	ug/L	1	8260B	Total/NA

Client Sample ID: 2205C81-001B WUABFFMW01

Lab Sample ID: 320-88427-2

No Detections.

Client Sample ID: 2205C81-001C WUABFFMW01

Lab Sample ID: 320-88427-3

No Detections.

Client Sample ID: 2205C81-001D WUABFFMW01

Lab Sample ID: 320-88427-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Bromide	0.18		0.50	0.088	mg/L	1	300.0	Total/NA
Chloride	11		1.0	0.37	mg/L	1	300.0	Total/NA
Sulfate	34		1.0	0.36	mg/L	1	300.0	Total/NA
Total Alkalinity	120		5.0	5.0	mg/L	1	SM 2320B	Total/NA

Client Sample ID: 2205C81-001E WUABFFMW01

Lab Sample ID: 320-88427-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Calcium	32		0.50	0.050	mg/L	1	6010B	Total/NA
Magnesium	4.2		0.50	0.040	mg/L	1	6010B	Total/NA
Potassium	2.7		1.0	0.093	mg/L	1	6010B	Total/NA
Sodium	27	B	1.0	0.25	mg/L	1	6010B	Total/NA

Client Sample ID: 2205C81-001F WUABFFMW01

Lab Sample ID: 320-88427-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Iron	0.16		0.10	0.020	mg/L	1	6010B	Dissolved
Manganese	0.28		0.0050	0.0025	mg/L	1	6010B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001A WUABFFMW01

Lab Sample ID: 320-88427-1

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.24	ug/L			06/09/22 00:39	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			06/09/22 00:39	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			06/09/22 00:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			06/09/22 00:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			06/09/22 00:39	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			06/09/22 00:39	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			06/09/22 00:39	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			06/09/22 00:39	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			06/09/22 00:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			06/09/22 00:39	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			06/09/22 00:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			06/09/22 00:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			06/09/22 00:39	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			06/09/22 00:39	1
1,2-Dibromoethane (EDB)	ND		1.0	0.41	ug/L			06/09/22 00:39	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			06/09/22 00:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/09/22 00:39	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			06/09/22 00:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			06/09/22 00:39	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			06/09/22 00:39	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			06/09/22 00:39	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			06/09/22 00:39	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			06/09/22 00:39	1
2-Butanone (MEK)	ND		20	4.5	ug/L			06/09/22 00:39	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			06/09/22 00:39	1
2-Hexanone	ND		10	2.7	ug/L			06/09/22 00:39	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			06/09/22 00:39	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			06/09/22 00:39	1
Acetone	ND		20	7.4	ug/L			06/09/22 00:39	1
Bromobenzene	ND		1.0	0.29	ug/L			06/09/22 00:39	1
Bromochloromethane	ND		2.0	0.38	ug/L			06/09/22 00:39	1
Bromodichloromethane	ND		1.0	0.29	ug/L			06/09/22 00:39	1
Bromoform	ND		5.0	1.9	ug/L			06/09/22 00:39	1
Bromomethane	ND		25	9.2	ug/L			06/09/22 00:39	1
Carbon disulfide	ND		10	0.42	ug/L			06/09/22 00:39	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			06/09/22 00:39	1
Chlorobenzene	ND		1.0	0.26	ug/L			06/09/22 00:39	1
Chloroethane	ND		5.0	1.9	ug/L			06/09/22 00:39	1
Chloroform	ND		1.0	0.32	ug/L			06/09/22 00:39	1
Chloromethane	ND		10	2.2	ug/L			06/09/22 00:39	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			06/09/22 00:39	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			06/09/22 00:39	1
Dibromochloromethane	ND		2.0	0.37	ug/L			06/09/22 00:39	1
Dibromomethane	ND		1.0	0.33	ug/L			06/09/22 00:39	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			06/09/22 00:39	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/09/22 00:39	1
Hexachlorobutadiene	ND		20	1.5	ug/L			06/09/22 00:39	1
Isopropylbenzene	ND		1.0	0.41	ug/L			06/09/22 00:39	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/L			06/09/22 00:39	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001A WUABFFMW01

Lab Sample ID: 320-88427-1

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	3.0	ug/L			06/09/22 00:39	1
m-Xylene & p-Xylene	ND		2.0	0.49	ug/L			06/09/22 00:39	1
Naphthalene	ND		10	4.9	ug/L			06/09/22 00:39	1
n-Butylbenzene	ND		1.0	0.53	ug/L			06/09/22 00:39	1
N-Propylbenzene	ND		1.0	0.47	ug/L			06/09/22 00:39	1
o-Xylene	ND		1.0	0.27	ug/L			06/09/22 00:39	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			06/09/22 00:39	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			06/09/22 00:39	1
Styrene	ND		1.0	0.38	ug/L			06/09/22 00:39	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			06/09/22 00:39	1
Tetrachloroethene	ND		1.0	0.40	ug/L			06/09/22 00:39	1
Toluene	0.47	J	1.0	0.30	ug/L			06/09/22 00:39	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			06/09/22 00:39	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			06/09/22 00:39	1
Trichloroethene	ND		1.0	0.39	ug/L			06/09/22 00:39	1
Trichlorofluoromethane	ND		10	0.75	ug/L			06/09/22 00:39	1
Vinyl acetate	ND		10	5.0	ug/L			06/09/22 00:39	1
Vinyl chloride	ND		0.50	0.43	ug/L			06/09/22 00:39	1
Xylenes, Total	ND		2.0	0.49	ug/L			06/09/22 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 123		06/09/22 00:39	1
4-Bromofluorobenzene (Surr)	103		80 - 120		06/09/22 00:39	1
Toluene-d8 (Surr)	102		80 - 120		06/09/22 00:39	1
Dibromofluoromethane (Surr)	99		78 - 120		06/09/22 00:39	1

Client Sample ID: 2205C81-001B WUABFFMW01

Lab Sample ID: 320-88427-2

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.020	0.0068	ug/L		06/07/22 17:37	06/08/22 05:28	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		06/07/22 17:37	06/08/22 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	87		70 - 130	06/07/22 17:37	06/08/22 05:28	1

Client Sample ID: 2205C81-001C WUABFFMW01

Lab Sample ID: 320-88427-3

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Acenaphthylene	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Anthracene	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzo[a]anthracene	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzo[b]fluoranthene	ND		11	1.3	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzo[k]fluoranthene	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzo[g,h,i]perylene	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1

Euofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001C WUABFFMW01

Lab Sample ID: 320-88427-3

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		11	0.76	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzoic acid	ND	*+ *1	56	22	ug/L		06/01/22 10:35	06/22/22 23:10	1
Benzyl alcohol	ND		11	2.9	ug/L		06/01/22 10:35	06/22/22 23:10	1
Bis(2-chloroethoxy)methane	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
Bis(2-chloroethyl)ether	ND		11	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
bis (2-chloroisopropyl) ether	ND		11	1.4	ug/L		06/01/22 10:35	06/22/22 23:10	1
Bis(2-ethylhexyl) phthalate	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Bromophenyl phenyl ether	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Butyl benzyl phthalate	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Chloroaniline	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Chloro-3-methylphenol	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Chloronaphthalene	ND		11	1.4	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Chlorophenol	ND		11	1.8	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Chlorophenyl phenyl ether	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Chrysene	ND		11	0.68	ug/L		06/01/22 10:35	06/22/22 23:10	1
Dibenz(a,h)anthracene	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Dibenzofuran	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Di-n-butyl phthalate	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
1,2-Dichlorobenzene	ND		11	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
1,3-Dichlorobenzene	ND		11	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
1,4-Dichlorobenzene	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
3,3'-Dichlorobenzidine	ND		56	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4-Dichlorophenol	ND		11	2.9	ug/L		06/01/22 10:35	06/22/22 23:10	1
Diethyl phthalate	ND		11	1.0	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4-Dimethylphenol	ND		11	2.5	ug/L		06/01/22 10:35	06/22/22 23:10	1
Dimethyl phthalate	ND		11	0.98	ug/L		06/01/22 10:35	06/22/22 23:10	1
4,6-Dinitro-2-methylphenol	ND		56	2.5	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4-Dinitrophenol	ND		56	22	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4-Dinitrotoluene	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,6-Dinitrotoluene	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Di-n-octyl phthalate	ND		11	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
Fluoranthene	ND		11	0.72	ug/L		06/01/22 10:35	06/22/22 23:10	1
Fluorene	ND		11	1.0	ug/L		06/01/22 10:35	06/22/22 23:10	1
Hexachlorobenzene	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
Hexachlorobutadiene	ND		11	1.4	ug/L		06/01/22 10:35	06/22/22 23:10	1
Hexachlorocyclopentadiene	ND		56	5.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
Hexachloroethane	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
Indeno[1,2,3-cd]pyrene	ND		11	3.8	ug/L		06/01/22 10:35	06/22/22 23:10	1
Isophorone	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Methylnaphthalene	ND		11	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Methylphenol	ND		11	1.0	ug/L		06/01/22 10:35	06/22/22 23:10	1
3-Methylphenol & 4-Methylphenol	ND		22	1.3	ug/L		06/01/22 10:35	06/22/22 23:10	1
Naphthalene	ND		11	1.4	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Nitroaniline	ND		56	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
3-Nitroaniline	ND		56	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Nitroaniline	ND		56	1.7	ug/L		06/01/22 10:35	06/22/22 23:10	1
Nitrobenzene	ND		11	1.8	ug/L		06/01/22 10:35	06/22/22 23:10	1
2-Nitrophenol	ND		11	2.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
4-Nitrophenol	ND		56	6.8	ug/L		06/01/22 10:35	06/22/22 23:10	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001C WUABFFMW01

Lab Sample ID: 320-88427-3

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		11	0.60	ug/L		06/01/22 10:35	06/22/22 23:10	1
N-Nitrosodi-n-propylamine	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
Pentachlorophenol	ND		56	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Phenanthrene	ND		11	1.1	ug/L		06/01/22 10:35	06/22/22 23:10	1
Phenol	ND		11	1.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Pyrene	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
Pyridine	ND		22	0.89	ug/L		06/01/22 10:35	06/22/22 23:10	1
1,2,4-Trichlorobenzene	ND		11	1.6	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4,5-Trichlorophenol	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
2,4,6-Trichlorophenol	ND		11	2.2	ug/L		06/01/22 10:35	06/22/22 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		55 - 140				06/01/22 10:35	06/22/22 23:10	1
2-Fluorobiphenyl (Surr)	57		57 - 98				06/01/22 10:35	06/22/22 23:10	1
2-Fluorophenol (Surr)	59		47 - 87				06/01/22 10:35	06/22/22 23:10	1
Nitrobenzene-d5 (Surr)	67		64 - 104				06/01/22 10:35	06/22/22 23:10	1
Phenol-d5 (Surr)	45		29 - 69				06/01/22 10:35	06/22/22 23:10	1
Terphenyl-d14 (Surr)	84		70 - 118				06/01/22 10:35	06/22/22 23:10	1

Client Sample ID: 2205C81-001D WUABFFMW01

Lab Sample ID: 320-88427-4

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.18	J	0.50	0.088	mg/L			05/31/22 22:24	1
Nitrate as N	ND	H	0.25	0.10	mg/L			05/31/22 22:24	1
Chloride	11		1.0	0.37	mg/L			05/31/22 22:24	1
Nitrite as N	ND	H	0.25	0.050	mg/L			05/31/22 22:24	1
Sulfate	34		1.0	0.36	mg/L			05/31/22 22:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	120		5.0	5.0	mg/L			06/03/22 13:20	1

Client Sample ID: 2205C81-001E WUABFFMW01

Lab Sample ID: 320-88427-5

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0025	mg/L		06/02/22 15:44	06/03/22 12:55	1
Arsenic	ND		0.020	0.012	mg/L		06/02/22 15:44	06/03/22 12:55	1
Calcium	32		0.50	0.050	mg/L		06/02/22 15:44	06/03/22 12:55	1
Magnesium	4.2		0.50	0.040	mg/L		06/02/22 15:44	06/03/22 12:55	1
Potassium	2.7		1.0	0.093	mg/L		06/02/22 15:44	06/03/22 12:55	1
Sodium	27	B	1.0	0.25	mg/L		06/02/22 15:44	06/03/22 16:29	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001F WUABFFMW01

Lab Sample ID: 320-88427-6

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Method: SW846 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.16		0.10	0.020	mg/L		06/08/22 06:45	06/08/22 17:01	1
Manganese	0.28		0.0050	0.0025	mg/L		06/08/22 06:45	06/08/22 17:01	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Surrogate Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-123)	BFB (80-120)	TOL (80-120)	DBFM (78-120)
320-88427-1	2205C81-001A WUABFFMW01	91	103	102	99
LCS 570-239943/1013	Lab Control Sample	98	101	99	100
LCSD 570-239943/14	Lab Control Sample Dup	100	102	100	99
MB 570-239943/17	Method Blank	93	104	104	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (55-140)	FBP (57-98)	2FP (47-87)	NBZ (64-104)	PHL (29-69)	TPHL (70-118)
320-88427-3	2205C81-001C WUABFFMW01	90	57	59	67	45	84
LCS 320-591745/2-A	Lab Control Sample	102	82	65	94	51	96
LCSD 320-591745/3-A	Lab Control Sample Dup	100	83	64	95	52	96
MB 320-591745/1-A	Method Blank	81	74	60	78	43	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DBP1 (70-130)
320-88427-2	2205C81-001B WUABFFMW01	87
LCS 280-577389/2-A	Lab Control Sample	94
LCSD 280-577389/3-A	Lab Control Sample Dup	92
MB 280-577389/1-A	Method Blank	94

Surrogate Legend

12DBP = 1,2-Dibromopropane

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-239943/17
Matrix: Water
Analysis Batch: 239943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.24	ug/L			06/08/22 22:26	1
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			06/08/22 22:26	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			06/08/22 22:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			06/08/22 22:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			06/08/22 22:26	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			06/08/22 22:26	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			06/08/22 22:26	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			06/08/22 22:26	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			06/08/22 22:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			06/08/22 22:26	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			06/08/22 22:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			06/08/22 22:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			06/08/22 22:26	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			06/08/22 22:26	1
1,2-Dibromoethane (EDB)	ND		1.0	0.41	ug/L			06/08/22 22:26	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			06/08/22 22:26	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/08/22 22:26	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			06/08/22 22:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			06/08/22 22:26	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			06/08/22 22:26	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			06/08/22 22:26	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			06/08/22 22:26	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			06/08/22 22:26	1
2-Butanone (MEK)	ND		20	4.5	ug/L			06/08/22 22:26	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			06/08/22 22:26	1
2-Hexanone	ND		10	2.7	ug/L			06/08/22 22:26	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			06/08/22 22:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			06/08/22 22:26	1
Acetone	ND		20	7.4	ug/L			06/08/22 22:26	1
Bromobenzene	ND		1.0	0.29	ug/L			06/08/22 22:26	1
Bromochloromethane	ND		2.0	0.38	ug/L			06/08/22 22:26	1
Bromodichloromethane	ND		1.0	0.29	ug/L			06/08/22 22:26	1
Bromoform	ND		5.0	1.9	ug/L			06/08/22 22:26	1
Bromomethane	ND		25	9.2	ug/L			06/08/22 22:26	1
Carbon disulfide	ND		10	0.42	ug/L			06/08/22 22:26	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			06/08/22 22:26	1
Chlorobenzene	ND		1.0	0.26	ug/L			06/08/22 22:26	1
Chloroethane	ND		5.0	1.9	ug/L			06/08/22 22:26	1
Chloroform	ND		1.0	0.32	ug/L			06/08/22 22:26	1
Chloromethane	ND		10	2.2	ug/L			06/08/22 22:26	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			06/08/22 22:26	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			06/08/22 22:26	1
Dibromochloromethane	ND		2.0	0.37	ug/L			06/08/22 22:26	1
Dibromomethane	ND		1.0	0.33	ug/L			06/08/22 22:26	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			06/08/22 22:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/08/22 22:26	1
Hexachlorobutadiene	ND		20	1.5	ug/L			06/08/22 22:26	1
Isopropylbenzene	ND		1.0	0.41	ug/L			06/08/22 22:26	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-239943/17
Matrix: Water
Analysis Batch: 239943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.30	ug/L			06/08/22 22:26	1
Methylene Chloride	ND		10	3.0	ug/L			06/08/22 22:26	1
m-Xylene & p-Xylene	ND		2.0	0.49	ug/L			06/08/22 22:26	1
Naphthalene	ND		10	4.9	ug/L			06/08/22 22:26	1
n-Butylbenzene	ND		1.0	0.53	ug/L			06/08/22 22:26	1
N-Propylbenzene	ND		1.0	0.47	ug/L			06/08/22 22:26	1
o-Xylene	ND		1.0	0.27	ug/L			06/08/22 22:26	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			06/08/22 22:26	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			06/08/22 22:26	1
Styrene	ND		1.0	0.38	ug/L			06/08/22 22:26	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			06/08/22 22:26	1
Tetrachloroethene	ND		1.0	0.40	ug/L			06/08/22 22:26	1
Toluene	ND		1.0	0.30	ug/L			06/08/22 22:26	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			06/08/22 22:26	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			06/08/22 22:26	1
Trichloroethene	ND		1.0	0.39	ug/L			06/08/22 22:26	1
Trichlorofluoromethane	ND		10	0.75	ug/L			06/08/22 22:26	1
Vinyl acetate	ND		10	5.0	ug/L			06/08/22 22:26	1
Vinyl chloride	ND		0.50	0.43	ug/L			06/08/22 22:26	1
Xylenes, Total	ND		2.0	0.49	ug/L			06/08/22 22:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 123		06/08/22 22:26	1
4-Bromofluorobenzene (Surr)	104		80 - 120		06/08/22 22:26	1
Toluene-d8 (Surr)	104		80 - 120		06/08/22 22:26	1
Dibromofluoromethane (Surr)	98		78 - 120		06/08/22 22:26	1

Lab Sample ID: LCS 570-239943/1013
Matrix: Water
Analysis Batch: 239943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	19.7		ug/L		98	76 - 120
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	80 - 128
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	76 - 122
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		98	79 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.2		ug/L		111	53 - 122
1,1,2-Trichloroethane	20.0	19.3		ug/L		97	80 - 120
1,1-Dichloroethane	20.0	19.4		ug/L		97	72 - 120
1,1-Dichloroethene	20.0	20.1		ug/L		100	64 - 121
1,1-Dichloropropene	20.0	19.5		ug/L		98	77 - 120
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	78 - 136
1,2,3-Trichloropropane	20.0	19.5		ug/L		97	74 - 120
1,2,4-Trichlorobenzene	20.0	20.9		ug/L		104	73 - 138
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	74 - 120
1,2-Dibromoethane (EDB)	20.0	19.6		ug/L		98	80 - 120
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-239943/1013
Matrix: Water
Analysis Batch: 239943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	20.0	18.7		ug/L		94	76 - 120
1,2-Dichloropropane	20.0	19.8		ug/L		99	73 - 122
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	80 - 122
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 120
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120
2,2-Dichloropropane	20.0	20.5		ug/L		103	60 - 150
2-Butanone (MEK)	20.0	18.0		ug/L		90	65 - 128
2-Chlorotoluene	20.0	18.9		ug/L		94	79 - 120
2-Hexanone	20.0	18.4		ug/L		92	61 - 140
4-Chlorotoluene	20.0	19.4		ug/L		97	80 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.9		ug/L		94	68 - 133
Acetone	20.0	18.1		ug/L		91	50 - 134
Bromobenzene	20.0	19.7		ug/L		99	80 - 125
Bromochloromethane	20.0	19.9		ug/L		100	79 - 120
Bromodichloromethane	20.0	19.6		ug/L		98	80 - 123
Bromoform	20.0	19.2		ug/L		96	80 - 128
Bromomethane	20.0	21.9		ug/L		110	64 - 150
Carbon disulfide	20.0	19.9		ug/L		100	67 - 126
Carbon tetrachloride	20.0	20.1		ug/L		100	80 - 127
Chlorobenzene	20.0	19.5		ug/L		98	80 - 120
Chloroethane	20.0	21.0		ug/L		105	67 - 128
Chloroform	20.0	19.1		ug/L		95	80 - 120
Chloromethane	20.0	19.5		ug/L		98	69 - 132
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	80 - 120
cis-1,3-Dichloropropene	20.0	20.5		ug/L		102	75 - 133
Dibromochloromethane	20.0	19.3		ug/L		96	79 - 130
Dibromomethane	20.0	19.0		ug/L		95	80 - 120
Dichlorodifluoromethane	20.0	23.0		ug/L		115	60 - 138
Ethylbenzene	20.0	19.6		ug/L		98	80 - 120
Hexachlorobutadiene	20.0	20.0		ug/L		100	61 - 150
Isopropylbenzene	20.0	20.2		ug/L		101	80 - 123
Methyl tert-butyl ether	20.0	19.9		ug/L		99	64 - 120
Methylene Chloride	20.0	19.9		ug/L		99	62 - 133
m-Xylene & p-Xylene	40.0	38.8		ug/L		97	74 - 122
Naphthalene	20.0	17.9		ug/L		90	80 - 120
n-Butylbenzene	20.0	20.6		ug/L		103	76 - 128
N-Propylbenzene	20.0	20.4		ug/L		102	80 - 122
o-Xylene	20.0	19.9		ug/L		100	80 - 121
p-Isopropyltoluene	20.0	19.3		ug/L		96	78 - 125
sec-Butylbenzene	20.0	19.8		ug/L		99	78 - 125
Styrene	20.0	19.8		ug/L		99	80 - 124
tert-Butylbenzene	20.0	19.2		ug/L		96	76 - 132
Tetrachloroethene	20.0	19.5		ug/L		97	72 - 135
Toluene	20.0	19.6		ug/L		98	76 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	73 - 120
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	80 - 132
Trichloroethene	20.0	18.9		ug/L		94	80 - 122
Trichlorofluoromethane	20.0	20.9		ug/L		104	69 - 139

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-239943/1013
Matrix: Water
Analysis Batch: 239943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	20.0	19.2		ug/L		96	74 - 147
Vinyl chloride	20.0	20.7		ug/L		103	70 - 124
Xylenes, Total	60.0	58.7		ug/L		98	78 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 123
4-Bromofluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	100		78 - 120

Lab Sample ID: LCSD 570-239943/14
Matrix: Water
Analysis Batch: 239943

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	20.0	20.3		ug/L		101	76 - 120	3	20
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	80 - 128	4	20
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	76 - 122	0	20
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	79 - 120	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5		ug/L		112	53 - 122	1	20
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	80 - 120	4	20
1,1-Dichloroethane	20.0	20.2		ug/L		101	72 - 120	4	20
1,1-Dichloroethene	20.0	20.5		ug/L		103	64 - 121	2	20
1,1-Dichloropropene	20.0	20.8		ug/L		104	77 - 120	6	20
1,2,3-Trichlorobenzene	20.0	21.1		ug/L		106	78 - 136	7	20
1,2,3-Trichloropropane	20.0	20.4		ug/L		102	74 - 120	5	20
1,2,4-Trichlorobenzene	20.0	21.9		ug/L		109	73 - 138	5	20
1,2,4-Trimethylbenzene	20.0	20.7		ug/L		103	80 - 121	5	20
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		102	74 - 120	6	20
1,2-Dibromoethane (EDB)	20.0	19.6		ug/L		98	80 - 120	0	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120	4	20
1,2-Dichloroethane	20.0	19.7		ug/L		98	76 - 120	5	20
1,2-Dichloropropane	20.0	20.2		ug/L		101	73 - 122	2	20
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		103	80 - 122	4	20
1,3-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 120	4	20
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 120	1	20
1,4-Dichlorobenzene	20.0	19.3		ug/L		96	80 - 120	5	20
2,2-Dichloropropane	20.0	21.1		ug/L		106	60 - 150	3	20
2-Butanone (MEK)	20.0	18.6		ug/L		93	65 - 128	3	20
2-Chlorotoluene	20.0	19.6		ug/L		98	79 - 120	4	20
2-Hexanone	20.0	21.8		ug/L		109	61 - 140	17	20
4-Chlorotoluene	20.0	20.0		ug/L		100	80 - 120	3	20
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/L		103	68 - 133	9	20
Acetone	20.0	21.0		ug/L		105	50 - 134	15	25
Bromobenzene	20.0	20.0		ug/L		100	80 - 125	1	20
Bromochloromethane	20.0	20.7		ug/L		103	79 - 120	4	20
Bromodichloromethane	20.0	20.0		ug/L		100	80 - 123	2	20
Bromoform	20.0	19.7		ug/L		99	80 - 128	3	20

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-239943/14
Matrix: Water
Analysis Batch: 239943

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	20.0	22.6		ug/L		113	64 - 150	3	20
Carbon disulfide	20.0	20.5		ug/L		103	67 - 126	3	20
Carbon tetrachloride	20.0	21.3		ug/L		106	80 - 127	6	20
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120	0	20
Chloroethane	20.0	19.8		ug/L		99	67 - 128	6	20
Chloroform	20.0	19.8		ug/L		99	80 - 120	3	20
Chloromethane	20.0	19.6		ug/L		98	69 - 132	0	20
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	80 - 120	7	20
cis-1,3-Dichloropropene	20.0	21.4		ug/L		107	75 - 133	5	20
Dibromochloromethane	20.0	19.7		ug/L		99	79 - 130	2	20
Dibromomethane	20.0	20.7		ug/L		104	80 - 120	9	20
Dichlorodifluoromethane	20.0	21.4		ug/L		107	60 - 138	8	21
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120	4	20
Hexachlorobutadiene	20.0	20.4		ug/L		102	61 - 150	2	20
Isopropylbenzene	20.0	20.8		ug/L		104	80 - 123	3	20
Methyl tert-butyl ether	20.0	20.3		ug/L		102	64 - 120	2	20
Methylene Chloride	20.0	20.0		ug/L		100	62 - 133	1	20
m-Xylene & p-Xylene	40.0	40.2		ug/L		101	74 - 122	4	20
Naphthalene	20.0	19.7		ug/L		99	80 - 120	10	20
n-Butylbenzene	20.0	21.1		ug/L		105	76 - 128	2	20
N-Propylbenzene	20.0	20.4		ug/L		102	80 - 122	0	20
o-Xylene	20.0	20.4		ug/L		102	80 - 121	3	20
p-Isopropyltoluene	20.0	19.9		ug/L		100	78 - 125	3	20
sec-Butylbenzene	20.0	20.2		ug/L		101	78 - 125	2	20
Styrene	20.0	20.4		ug/L		102	80 - 124	3	20
tert-Butylbenzene	20.0	20.0		ug/L		100	76 - 132	4	20
Tetrachloroethene	20.0	20.6		ug/L		103	72 - 135	6	20
Toluene	20.0	20.6		ug/L		103	76 - 120	5	20
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	73 - 120	5	20
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	80 - 132	1	20
Trichloroethene	20.0	19.8		ug/L		99	80 - 122	5	20
Trichlorofluoromethane	20.0	20.8		ug/L		104	69 - 139	0	20
Vinyl acetate	20.0	21.6		ug/L		108	74 - 147	12	20
Vinyl chloride	20.0	20.0		ug/L		100	70 - 124	3	20
Xylenes, Total	60.0	60.6		ug/L		101	78 - 126	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 123
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	99		78 - 120

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-591745/1-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591745

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Acenaphthylene	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Anthracene	ND		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzo[a]anthracene	ND		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzo[k]fluoranthene	ND		10	0.96	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzo[g,h,i]perylene	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzo[a]pyrene	ND		10	0.68	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzoic acid	ND		50	20	ug/L		06/01/22 10:35	06/22/22 20:17	1
Benzyl alcohol	ND		10	2.6	ug/L		06/01/22 10:35	06/22/22 20:17	1
Bis(2-chloroethoxy)methane	ND		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
bis (2-chloroisopropyl) ether	ND		10	1.3	ug/L		06/01/22 10:35	06/22/22 20:17	1
Bis(2-ethylhexyl) phthalate	24.2		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Bromophenyl phenyl ether	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Butyl benzyl phthalate	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Chloroaniline	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Chloro-3-methylphenol	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Chloronaphthalene	ND		10	1.3	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Chlorophenol	ND		10	1.6	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Chlorophenyl phenyl ether	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Chrysene	ND		10	0.61	ug/L		06/01/22 10:35	06/22/22 20:17	1
Dibenz(a,h)anthracene	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Dibenzofuran	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Di-n-butyl phthalate	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
1,2-Dichlorobenzene	ND		10	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
1,3-Dichlorobenzene	ND		10	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
1,4-Dichlorobenzene	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
3,3'-Dichlorobenzidine	ND		50	0.96	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4-Dichlorophenol	ND		10	2.6	ug/L		06/01/22 10:35	06/22/22 20:17	1
Diethyl phthalate	ND		10	0.93	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4-Dimethylphenol	ND		10	2.2	ug/L		06/01/22 10:35	06/22/22 20:17	1
Dimethyl phthalate	ND		10	0.88	ug/L		06/01/22 10:35	06/22/22 20:17	1
4,6-Dinitro-2-methylphenol	ND		50	2.2	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4-Dinitrophenol	ND		50	20	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Di-n-octyl phthalate	ND		10	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
Fluoranthene	ND		10	0.65	ug/L		06/01/22 10:35	06/22/22 20:17	1
Fluorene	ND		10	0.93	ug/L		06/01/22 10:35	06/22/22 20:17	1
Hexachlorobenzene	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Hexachlorobutadiene	ND		10	1.3	ug/L		06/01/22 10:35	06/22/22 20:17	1
Hexachlorocyclopentadiene	ND		50	5.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Hexachloroethane	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Indeno[1,2,3-cd]pyrene	ND		10	3.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Isophorone	ND		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Methylnaphthalene	ND		10	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Methylphenol	ND		10	0.93	ug/L		06/01/22 10:35	06/22/22 20:17	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-591745/1-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol & 4-Methylphenol	ND		20	1.2	ug/L		06/01/22 10:35	06/22/22 20:17	1
Naphthalene	ND		10	1.3	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Nitroaniline	ND		50	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
3-Nitroaniline	ND		50	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Nitroaniline	ND		50	1.5	ug/L		06/01/22 10:35	06/22/22 20:17	1
Nitrobenzene	ND		10	1.6	ug/L		06/01/22 10:35	06/22/22 20:17	1
2-Nitrophenol	ND		10	1.9	ug/L		06/01/22 10:35	06/22/22 20:17	1
4-Nitrophenol	ND		50	6.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
N-Nitrosodiphenylamine	ND		10	0.54	ug/L		06/01/22 10:35	06/22/22 20:17	1
N-Nitrosodi-n-propylamine	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Pentachlorophenol	ND		50	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Phenanthrene	ND		10	1.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
Phenol	ND		10	1.1	ug/L		06/01/22 10:35	06/22/22 20:17	1
Pyrene	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
Pyridine	ND		20	0.80	ug/L		06/01/22 10:35	06/22/22 20:17	1
1,2,4-Trichlorobenzene	ND		10	1.4	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4,5-Trichlorophenol	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1
2,4,6-Trichlorophenol	ND		10	2.0	ug/L		06/01/22 10:35	06/22/22 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		55 - 140	06/01/22 10:35	06/22/22 20:17	1
2-Fluorobiphenyl (Surr)	74		57 - 98	06/01/22 10:35	06/22/22 20:17	1
2-Fluorophenol (Surr)	60		47 - 87	06/01/22 10:35	06/22/22 20:17	1
Nitrobenzene-d5 (Surr)	78		64 - 104	06/01/22 10:35	06/22/22 20:17	1
Phenol-d5 (Surr)	43		29 - 69	06/01/22 10:35	06/22/22 20:17	1
Terphenyl-d14 (Surr)	94		70 - 118	06/01/22 10:35	06/22/22 20:17	1

Lab Sample ID: LCS 320-591745/2-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	84.7		ug/L		85	63 - 103
Acenaphthylene	100	82.7		ug/L		83	60 - 100
Anthracene	100	89.9		ug/L		90	63 - 103
Benzo[a]anthracene	100	90.6		ug/L		91	66 - 109
Benzo[b]fluoranthene	100	94.1		ug/L		94	69 - 109
Benzo[k]fluoranthene	100	92.7		ug/L		93	67 - 107
Benzo[g,h,i]perylene	100	94.6		ug/L		95	63 - 113
Benzo[a]pyrene	100	92.7		ug/L		93	69 - 109
Benzoic acid	200	133	*+	ug/L		66	10 - 63
Benzyl alcohol	100	81.8		ug/L		82	63 - 105
Bis(2-chloroethoxy)methane	100	82.6		ug/L		83	62 - 102
Bis(2-chloroethyl)ether	100	76.8		ug/L		77	62 - 102
bis (2-chloroisopropyl) ether	100	72.1		ug/L		72	53 - 100
Bis(2-ethylhexyl) phthalate	100	95.1		ug/L		95	70 - 117
4-Bromophenyl phenyl ether	100	91.0		ug/L		91	64 - 111
Butyl benzyl phthalate	100	93.8		ug/L		94	69 - 116

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-591745/2-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	100	67.0		ug/L		67	45 - 97
4-Chloro-3-methylphenol	100	93.5		ug/L		93	70 - 111
2-Chloronaphthalene	100	81.3		ug/L		81	60 - 100
2-Chlorophenol	100	78.7		ug/L		79	63 - 103
4-Chlorophenyl phenyl ether	100	87.9		ug/L		88	61 - 112
Chrysene	100	91.6		ug/L		92	64 - 111
Dibenz(a,h)anthracene	100	95.9		ug/L		96	65 - 112
Dibenzofuran	100	86.2		ug/L		86	62 - 103
Di-n-butyl phthalate	100	91.9		ug/L		92	67 - 107
1,2-Dichlorobenzene	100	68.4		ug/L		68	52 - 92
1,3-Dichlorobenzene	100	65.7		ug/L		66	50 - 90
1,4-Dichlorobenzene	100	66.9		ug/L		67	50 - 90
3,3'-Dichlorobenzidine	100	65.7		ug/L		66	52 - 114
2,4-Dichlorophenol	100	88.5		ug/L		89	66 - 106
Diethyl phthalate	100	90.1		ug/L		90	64 - 117
2,4-Dimethylphenol	100	85.0		ug/L		85	65 - 107
Dimethyl phthalate	100	89.5		ug/L		90	65 - 112
4,6-Dinitro-2-methylphenol	200	204		ug/L		102	63 - 118
2,4-Dinitrophenol	200	208		ug/L		104	49 - 128
2,4-Dinitrotoluene	100	99.7		ug/L		100	68 - 120
2,6-Dinitrotoluene	100	100		ug/L		100	68 - 116
Di-n-octyl phthalate	100	92.8		ug/L		93	68 - 117
Fluoranthene	100	90.8		ug/L		91	67 - 107
Fluorene	100	88.7		ug/L		89	62 - 109
Hexachlorobenzene	100	91.8		ug/L		92	56 - 124
Hexachlorobutadiene	100	70.9		ug/L		71	45 - 96
Hexachlorocyclopentadiene	100	60.8		ug/L		61	23 - 85
Hexachloroethane	100	65.5		ug/L		66	48 - 88
Indeno[1,2,3-cd]pyrene	100	94.8		ug/L		95	65 - 118
Isophorone	100	82.8		ug/L		83	62 - 102
2-Methylnaphthalene	100	80.0		ug/L		80	58 - 98
2-Methylphenol	100	80.1		ug/L		80	63 - 103
3-Methylphenol & 4-Methylphenol	100	77.9		ug/L		78	60 - 100
Naphthalene	100	76.2		ug/L		76	56 - 96
2-Nitroaniline	100	96.8		ug/L		97	61 - 127
3-Nitroaniline	100	73.5		ug/L		73	46 - 103
4-Nitroaniline	100	95.2		ug/L		95	67 - 112
Nitrobenzene	100	86.6		ug/L		87	64 - 104
2-Nitrophenol	100	91.9		ug/L		92	67 - 108
4-Nitrophenol	200	123		ug/L		62	32 - 89
N-Nitrosodiphenylamine	100	89.5		ug/L		90	64 - 104
N-Nitrosodi-n-propylamine	100	79.8		ug/L		80	63 - 108
Pentachlorophenol	200	197		ug/L		98	57 - 115
Phenanthrene	100	90.7		ug/L		91	62 - 103
Phenol	100	50.8		ug/L		51	32 - 72
Pyrene	100	91.6		ug/L		92	63 - 109
Pyridine	200	95.2		ug/L		48	41 - 81
1,2,4-Trichlorobenzene	100	74.0		ug/L		74	53 - 93
2,4,5-Trichlorophenol	100	95.5		ug/L		95	66 - 119

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-591745/2-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	100	92.9		ug/L		93	68 - 119
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	102		55 - 140				
2-Fluorobiphenyl (Surr)	82		57 - 98				
2-Fluorophenol (Surr)	65		47 - 87				
Nitrobenzene-d5 (Surr)	94		64 - 104				
Phenol-d5 (Surr)	51		29 - 69				
Terphenyl-d14 (Surr)	96		70 - 118				

Lab Sample ID: LCSD 320-591745/3-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	100	87.3		ug/L		87	63 - 103	3	30
Acenaphthylene	100	86.0		ug/L		86	60 - 100	4	30
Anthracene	100	95.5		ug/L		95	63 - 103	6	30
Benzo[a]anthracene	100	96.3		ug/L		96	66 - 109	6	30
Benzo[b]fluoranthene	100	100		ug/L		100	69 - 109	6	30
Benzo[k]fluoranthene	100	99.3		ug/L		99	67 - 107	7	30
Benzo[g,h,i]perylene	100	100		ug/L		100	63 - 113	6	30
Benzo[a]pyrene	100	98.9		ug/L		99	69 - 109	7	30
Benzoic acid	200	50.8	*1	ug/L		25	10 - 63	89	30
Benzyl alcohol	100	86.1		ug/L		86	63 - 105	5	30
Bis(2-chloroethoxy)methane	100	87.0		ug/L		87	62 - 102	5	30
Bis(2-chloroethyl)ether	100	81.1		ug/L		81	62 - 102	5	30
bis (2-chloroisopropyl) ether	100	76.8		ug/L		77	53 - 100	6	30
Bis(2-ethylhexyl) phthalate	100	101		ug/L		101	70 - 117	6	30
4-Bromophenyl phenyl ether	100	95.8		ug/L		96	64 - 111	5	30
Butyl benzyl phthalate	100	99.3		ug/L		99	69 - 116	6	30
4-Chloroaniline	100	67.1		ug/L		67	45 - 97	0	30
4-Chloro-3-methylphenol	100	97.1		ug/L		97	70 - 111	4	30
2-Chloronaphthalene	100	86.3		ug/L		86	60 - 100	6	30
2-Chlorophenol	100	83.7		ug/L		84	63 - 103	6	30
4-Chlorophenyl phenyl ether	100	90.3		ug/L		90	61 - 112	3	30
Chrysene	100	97.0		ug/L		97	64 - 111	6	30
Dibenz(a,h)anthracene	100	103		ug/L		103	65 - 112	7	30
Dibenzofuran	100	88.5		ug/L		88	62 - 103	3	30
Di-n-butyl phthalate	100	97.0		ug/L		97	67 - 107	5	30
1,2-Dichlorobenzene	100	71.9		ug/L		72	52 - 92	5	30
1,3-Dichlorobenzene	100	69.4		ug/L		69	50 - 90	5	30
1,4-Dichlorobenzene	100	70.4		ug/L		70	50 - 90	5	30
3,3'-Dichlorobenzidine	100	71.8		ug/L		72	52 - 114	9	30
2,4-Dichlorophenol	100	94.3		ug/L		94	66 - 106	6	30
Diethyl phthalate	100	92.9		ug/L		93	64 - 117	3	30
2,4-Dimethylphenol	100	89.4		ug/L		89	65 - 107	5	30
Dimethyl phthalate	100	92.9		ug/L		93	65 - 112	4	30

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-591745/3-A
Matrix: Water
Analysis Batch: 597878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	200	219		ug/L		109	63 - 118	7	30
2,4-Dinitrophenol	200	220		ug/L		110	49 - 128	6	30
2,4-Dinitrotoluene	100	104		ug/L		104	68 - 120	5	30
2,6-Dinitrotoluene	100	105		ug/L		105	68 - 116	4	30
Di-n-octyl phthalate	100	98.6		ug/L		99	68 - 117	6	30
Fluoranthene	100	96.5		ug/L		96	67 - 107	6	30
Fluorene	100	91.6		ug/L		92	62 - 109	3	30
Hexachlorobenzene	100	97.5		ug/L		98	56 - 124	6	30
Hexachlorobutadiene	100	76.8		ug/L		77	45 - 96	8	30
Hexachlorocyclopentadiene	100	61.9		ug/L		62	23 - 85	2	30
Hexachloroethane	100	69.0		ug/L		69	48 - 88	5	30
Indeno[1,2,3-cd]pyrene	100	101		ug/L		101	65 - 118	6	30
Isophorone	100	86.8		ug/L		87	62 - 102	5	30
2-Methylnaphthalene	100	85.6		ug/L		86	58 - 98	7	30
2-Methylphenol	100	85.0		ug/L		85	63 - 103	6	30
3-Methylphenol & 4-Methylphenol	100	83.8		ug/L		84	60 - 100	7	30
Naphthalene	100	81.9		ug/L		82	56 - 96	7	30
2-Nitroaniline	100	102		ug/L		102	61 - 127	5	30
3-Nitroaniline	100	77.2		ug/L		77	46 - 103	5	30
4-Nitroaniline	100	100		ug/L		100	67 - 112	5	30
Nitrobenzene	100	91.4		ug/L		91	64 - 104	5	30
2-Nitrophenol	100	98.0		ug/L		98	67 - 108	6	30
4-Nitrophenol	200	129		ug/L		65	32 - 89	5	30
N-Nitrosodiphenylamine	100	94.8		ug/L		95	64 - 104	6	30
N-Nitrosodi-n-propylamine	100	84.3		ug/L		84	63 - 108	5	30
Pentachlorophenol	200	208		ug/L		104	57 - 115	6	30
Phenanthrene	100	95.3		ug/L		95	62 - 103	5	30
Phenol	100	54.7		ug/L		55	32 - 72	7	30
Pyrene	100	96.9		ug/L		97	63 - 109	6	30
Pyridine	200	101		ug/L		50	41 - 81	6	30
1,2,4-Trichlorobenzene	100	78.9		ug/L		79	53 - 93	6	30
2,4,5-Trichlorophenol	100	97.8		ug/L		98	66 - 119	2	30
2,4,6-Trichlorophenol	100	95.8		ug/L		96	68 - 119	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	100		55 - 140
2-Fluorobiphenyl (Surr)	83		57 - 98
2-Fluorophenol (Surr)	64		47 - 87
Nitrobenzene-d5 (Surr)	95		64 - 104
Phenol-d5 (Surr)	52		29 - 69
Terphenyl-d14 (Surr)	96		70 - 118

QC Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-577389/1-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577389

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromo-3-Chloropropane	ND		0.020	0.0068	ug/L		06/07/22 17:37	06/07/22 22:42	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		06/07/22 17:37	06/07/22 22:42	1
Surrogate		MB MB	Limits			D	Prepared	Analyzed	Dil Fac
		%Recovery		Qualifier					
1,2-Dibromopropane		94	70 - 130				06/07/22 17:37	06/07/22 22:42	1

Lab Sample ID: LCS 280-577389/2-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
1,2-Dibromo-3-Chloropropane	0.250	0.248		ug/L		99	60 - 140			
1,2-Dibromoethane	0.250	0.227		ug/L		91	60 - 140			
Surrogate		LCS LCS	Limits			D	%Rec	%Rec Limits		
		%Recovery		Qualifier						
1,2-Dibromopropane		94	70 - 130							

Lab Sample ID: LCSD 280-577389/3-A
Matrix: Water
Analysis Batch: 577396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.250	0.254		ug/L		101	60 - 140	2	10
1,2-Dibromoethane	0.250	0.235		ug/L		94	60 - 140	4	10
Surrogate		LCSD LCSD	Limits			D	%Rec	%Rec Limits	RPD
		%Recovery		Qualifier					
1,2-Dibromopropane		92	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-591596/3
Matrix: Water
Analysis Batch: 591596

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	ND		0.50	0.088	mg/L			05/31/22 16:51	1
Chloride	ND		1.0	0.37	mg/L			05/31/22 16:51	1
Sulfate	ND		1.0	0.36	mg/L			05/31/22 16:51	1

Lab Sample ID: LCS 320-591596/4
Matrix: Water
Analysis Batch: 591596

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	7.50	7.64		mg/L		102	90 - 110		
Chloride	7.50	7.64		mg/L		102	90 - 110		
Sulfate	7.50	7.53		mg/L		100	90 - 110		

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 320-88427-4 MS
Matrix: Water
Analysis Batch: 591596

Client Sample ID: 2205C81-001D WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.18		5.00	5.16		mg/L		100	90 - 110
Chloride	11		5.00	16.1		mg/L		97	90 - 110
Sulfate	34		5.00	38.3	4	mg/L		87	90 - 110

Lab Sample ID: 320-88427-4 MSD
Matrix: Water
Analysis Batch: 591596

Client Sample ID: 2205C81-001D WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.18		5.00	5.05		mg/L		97	90 - 110	2	10
Chloride	11		5.00	16.0		mg/L		95	90 - 110	1	10
Sulfate	34		5.00	38.3	4	mg/L		86	90 - 110	0	10

Lab Sample ID: MB 320-591597/3
Matrix: Water
Analysis Batch: 591597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.25	0.10	mg/L			05/31/22 16:51	1
Nitrite as N	ND		0.25	0.050	mg/L			05/31/22 16:51	1

Lab Sample ID: LCS 320-591597/4
Matrix: Water
Analysis Batch: 591597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.50	1.49		mg/L		100	90 - 110
Nitrite as N	1.52	1.56		mg/L		103	90 - 110

Lab Sample ID: 320-88427-4 MS
Matrix: Water
Analysis Batch: 591597

Client Sample ID: 2205C81-001D WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND	H	1.00	0.989		mg/L		99	90 - 110
Nitrite as N	ND	H	1.52	1.52		mg/L		100	90 - 110

Lab Sample ID: 320-88427-4 MSD
Matrix: Water
Analysis Batch: 591597

Client Sample ID: 2205C81-001D WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND	H	1.00	0.968		mg/L		97	90 - 110	2	10
Nitrite as N	ND	H	1.52	1.49		mg/L		98	90 - 110	2	10

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-592347/1-A
Matrix: Water
Analysis Batch: 592570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592347

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0050	0.0025	mg/L		06/02/22 15:44	06/03/22 11:45	1
Arsenic	ND		0.020	0.012	mg/L		06/02/22 15:44	06/03/22 11:45	1
Calcium	ND		0.50	0.050	mg/L		06/02/22 15:44	06/03/22 11:45	1
Magnesium	ND		0.50	0.040	mg/L		06/02/22 15:44	06/03/22 11:45	1
Potassium	ND		1.0	0.093	mg/L		06/02/22 15:44	06/03/22 11:45	1

Lab Sample ID: MB 320-592347/1-A
Matrix: Water
Analysis Batch: 593063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592347

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	0.655		1.0	0.25	mg/L		06/02/22 15:44	06/03/22 15:42	1

Lab Sample ID: LCS 320-592347/2-A
Matrix: Water
Analysis Batch: 592570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Lead	0.250	0.229		mg/L		92		80 - 120
Arsenic	0.500	0.475		mg/L		95		80 - 120
Calcium	25.0	24.2		mg/L		97		80 - 120
Magnesium	25.0	23.3		mg/L		93		80 - 120
Potassium	25.0	22.4		mg/L		90		80 - 120

Lab Sample ID: LCS 320-592347/2-A
Matrix: Water
Analysis Batch: 593063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Sodium	25.0	24.1		mg/L		96		80 - 120

Lab Sample ID: MB 320-593684/1-A
Matrix: Water
Analysis Batch: 593988

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 593684

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	ND		0.10	0.020	mg/L		06/08/22 06:45	06/08/22 15:59	1
Manganese	ND		0.0050	0.0025	mg/L		06/08/22 06:45	06/08/22 15:59	1

Lab Sample ID: LCS 320-593684/2-A
Matrix: Water
Analysis Batch: 593988

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 593684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Iron	5.00	5.05		mg/L		101		80 - 120
Manganese	0.250	0.234		mg/L		94		80 - 120

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 320-592720/7
Matrix: Water
Analysis Batch: 592720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	5.0	mg/L			06/03/22 12:12	1

Lab Sample ID: LCS 320-592720/8
Matrix: Water
Analysis Batch: 592720

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

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

Lab Sample ID: LCSD 320-592720/9
Matrix: Water
Analysis Batch: 592720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	1000	987		mg/L		99	90 - 110	0	10

QC Association Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

GC/MS VOA

Analysis Batch: 239943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-1	2205C81-001A WUABFFMW01	Total/NA	Water	8260B	
MB 570-239943/17	Method Blank	Total/NA	Water	8260B	
LCS 570-239943/1013	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-239943/14	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 591745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-3	2205C81-001C WUABFFMW01	Total/NA	Water	3510C	
MB 320-591745/1-A	Method Blank	Total/NA	Water	3510C	
LCS 320-591745/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 320-591745/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 597878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-3	2205C81-001C WUABFFMW01	Total/NA	Water	8270C	591745
MB 320-591745/1-A	Method Blank	Total/NA	Water	8270C	591745
LCS 320-591745/2-A	Lab Control Sample	Total/NA	Water	8270C	591745
LCSD 320-591745/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	591745

GC Semi VOA

Prep Batch: 577389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-2	2205C81-001B WUABFFMW01	Total/NA	Water	8011	
MB 280-577389/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-577389/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-577389/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 577396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-2	2205C81-001B WUABFFMW01	Total/NA	Water	8011	577389
MB 280-577389/1-A	Method Blank	Total/NA	Water	8011	577389
LCS 280-577389/2-A	Lab Control Sample	Total/NA	Water	8011	577389
LCSD 280-577389/3-A	Lab Control Sample Dup	Total/NA	Water	8011	577389

HPLC/IC

Analysis Batch: 591596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-4	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	
MB 320-591596/3	Method Blank	Total/NA	Water	300.0	
LCS 320-591596/4	Lab Control Sample	Total/NA	Water	300.0	
320-88427-4 MS	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	
320-88427-4 MSD	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	

Analysis Batch: 591597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-4	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	
MB 320-591597/3	Method Blank	Total/NA	Water	300.0	
LCS 320-591597/4	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Sacramento

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

HPLC/IC (Continued)

Analysis Batch: 591597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-4 MS	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	
320-88427-4 MSD	2205C81-001D WUABFFMW01	Total/NA	Water	300.0	

Metals

Prep Batch: 592347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-5	2205C81-001E WUABFFMW01	Total/NA	Water	3010A	
MB 320-592347/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 592570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-5	2205C81-001E WUABFFMW01	Total/NA	Water	6010B	592347
MB 320-592347/1-A	Method Blank	Total/NA	Water	6010B	592347
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	6010B	592347

Analysis Batch: 593063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-5	2205C81-001E WUABFFMW01	Total/NA	Water	6010B	592347
MB 320-592347/1-A	Method Blank	Total/NA	Water	6010B	592347
LCS 320-592347/2-A	Lab Control Sample	Total/NA	Water	6010B	592347

Prep Batch: 593684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-6	2205C81-001F WUABFFMW01	Dissolved	Water	3005A	
MB 320-593684/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 320-593684/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 593988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-6	2205C81-001F WUABFFMW01	Dissolved	Water	6010B	593684
MB 320-593684/1-A	Method Blank	Total Recoverable	Water	6010B	593684
LCS 320-593684/2-A	Lab Control Sample	Total Recoverable	Water	6010B	593684

General Chemistry

Analysis Batch: 592720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88427-4	2205C81-001D WUABFFMW01	Total/NA	Water	SM 2320B	
MB 320-592720/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 320-592720/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 320-592720/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Client Sample ID: 2205C81-001A WUABFFMW01

Lab Sample ID: 320-88427-1

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	239943	06/09/22 00:39	UX77	EET CAL 4

Client Sample ID: 2205C81-001B WUABFFMW01

Lab Sample ID: 320-88427-2

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.2 mL	35 mL	577389	06/07/22 17:37	KSA	EET DEN
Total/NA	Analysis	8011		1			577396	06/08/22 05:28	KSA	EET DEN

Client Sample ID: 2205C81-001C WUABFFMW01

Lab Sample ID: 320-88427-3

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			897.3 mL	1 mL	591745	06/01/22 10:35	AWK	EET SAC
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	597878	06/22/22 23:10	Y1S	EET SAC

Client Sample ID: 2205C81-001D WUABFFMW01

Lab Sample ID: 320-88427-4

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	591596	05/31/22 22:24	Y1S	EET SAC
Total/NA	Analysis	300.0		1	10 mL	10 mL	591597	05/31/22 22:24	Y1S	EET SAC
Total/NA	Analysis	SM 2320B		1			592720	06/03/22 13:20	KMW	EET SAC

Client Sample ID: 2205C81-001E WUABFFMW01

Lab Sample ID: 320-88427-5

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	592347	06/02/22 15:44	JP	EET SAC
Total/NA	Analysis	6010B		1			592570	06/03/22 12:55	SP	EET SAC
Total/NA	Prep	3010A			50 mL	50 mL	592347	06/02/22 15:44	JP	EET SAC
Total/NA	Analysis	6010B		1			593063	06/03/22 16:29	SP	EET SAC

Client Sample ID: 2205C81-001F WUABFFMW01

Lab Sample ID: 320-88427-6

Date Collected: 05/27/22 10:15

Matrix: Water

Date Received: 05/28/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	593684	06/08/22 06:45	NIM	EET SAC
Dissolved	Analysis	6010B		1			593988	06/08/22 17:01	SP	EET SAC

Eurofins Sacramento

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	07-13-22
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-22 *
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-22
Louisiana	NELAP	01944	06-30-22
Louisiana (All)	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23
Nevada	State	CA00044	07-31-22
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-23
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	02-28-23
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-23
West Virginia (DW)	State	9930C	12-31-22
Wisconsin	State	998204680	08-12-22
Wyoming	State Program	8TMS-L	01-28-19 *

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	12-01-22
California	State	3082	07-31-22
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
-----------	---------	-----------------------	-----------------

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

Eurofins Sacramento

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Laboratory: Eurofins Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	06-28-22
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	08-31-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAC
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET DEN
300.0	Anions, Ion Chromatography	MCAWW	EET SAC
6010B	Metals (ICP)	SW846	EET SAC
SM 2320B	Alkalinity	SM	EET SAC
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAC
3010A	Preparation, Total Metals	SW846	EET SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAC
5030C	Purge and Trap	SW846	EET CAL 4
8011	Microextraction	SW846	EET DEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: KIRKLAND AFB

Job ID: 320-88427-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88427-1	2205C81-001A WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30
320-88427-2	2205C81-001B WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30
320-88427-3	2205C81-001C WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30
320-88427-4	2205C81-001D WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30
320-88427-5	2205C81-001E WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30
320-88427-6	2205C81-001F WUABFFMW01	Water	05/27/22 10:15	05/28/22 09:30

1

2

3

4

5

6

7

8

9

10

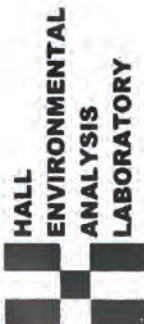
11

12

13

14

15



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975
 FAX: 505-345-4107
 Website: www.hallenvironmental.com

SUB CONTRACTOR		Eurofins Sacramento		COMPANY	PHONE	(916) 373-5600	FAX
ADDRESS		880 Riverside Parkway		ACCOUNT #	EMAIL		
CITY, STATE, ZIP		West Sacramento, CA 95605					
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	ANALYTICAL COMMENTS	
1	2205C81-001A	WUABFFMW01	VOAHC1	Groundw	5/27/2022 10:15:00 AM	3	See Attached- ELAP Cert:2897
2	2205C81-001B	WUABFFMW01	VOANA2S20	Groundw	5/27/2022 10:15:00 AM	2	See Attached- ELAP Cert:2897
3	2205C81-001C	WUABFFMW01	1LAMGU	Groundw	5/27/2022 10:15:00 AM	1	See Attached- ELAP Cert:2897
4	2205C81-001D	WUABFFMW01	500ML COMBO	Groundw	5/27/2022 10:15:00 AM	2	See Attached- ELAP Cert:2897
5	2205C81-001E	WUABFFMW01	250HDPEHN	Groundw	5/27/2022 10:15:00 AM	1	See Attached- ELAP Cert:2897
6	2205C81-001F	WUABFFMW01	125HDPHNO	Groundw	5/27/2022 10:15:00 AM	1	See Attached- ELAP Cert:2897
7	2205C81-002A	Trip Blank	VOAHCL	Trip Blank		2	See Attached- ELAP Cert:2897
8	2205C81-002B	Trip Blank	VOANA2S20	Trip Blank		1	See Attached- ELAP Cert:2897

See 5/27/22



320-88427 Chain of Custody

SPECIAL INSTRUCTIONS/COMMENTS:
 Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>SGL</i>	Date: 5/27/2022	Time: 12:04 PM	Received By: <i>[Signature]</i>	Date: 5/28/22	Time: 9:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard RUSH

Next BD 2nd RD 3rd BD

REPORT TRANSMITTAL DESIRED
 HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY
 Temp of samples: 1.3 °C Attempt to Cool? _____
 Comments: _____



ELAP CERT. 2897

Analyze the following

EPA 8260B

EPA 8270

EPA 504.1 EDB

SM2320B

EPA 300.0 – Br, Cl, SO₄, NO₂, NO₃

6010C – As, Pb, Ca, Mg, K, Na

6010C Dissolved - Fe + Mn

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

eurofins Environment Testing TestAmerica **Temperature Control**

Custody Seal

1711595

Environment Testing TestAmerica | eurofins

DATE _____

SIGNATURE _____

TAL=0090(10)

320-88427 Waybill



ORIGIN ID:BLUA
 TEST AMERICA
 EUROFINS TESTAMERICA W SACRAMENTO
 880 RIVERSIDE PARKWAY
 WEST SACRAMENTO, CA 95605
 UNITED STATES US

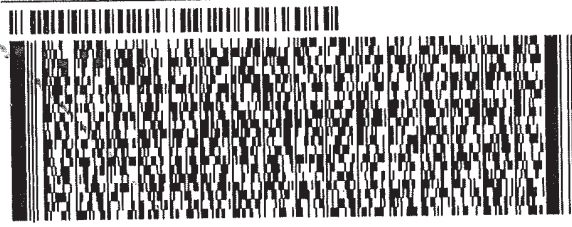
SHIP DATE: 31MAY22
 ACTWGT: 20.45 LB
 CAD: 852262/CAFE3512

BILL SENDER

TO EUROFINS ENV. TESTING SOUTHWEST
SAMPLE RECEIVING
2841 DOW AVE
SUITE 100
TUSTIN CA 92780

RT **678** 5 10:30 D
 REF SEN ST **3** 2230 06 01

(949) 261-1022
 DEPT: SUB WORK



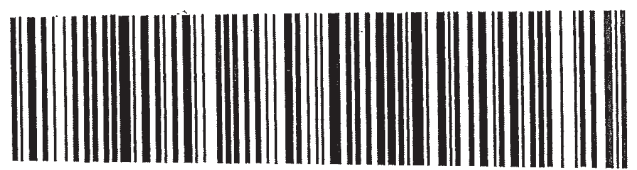
FedEx
 Expre
E

TRK# 4895 5418 2230

WED - 01 JUN 10:30
 PRIORITY OVERNIGHT

92 DTHA

9278
 CA-US SN



Chain of Custody Record



Client Information (Sub Contract Lab) Lab PM: Caparas, Criselda Carrier Tracking No(s): 320-272081.1 State of Origin: New Mexico		COC No: 320-272081.1 Page: Page 1 of 1													
Client Contact: Criselda.Caparas@et.eurofinsus.com Shipping/Receiving E-Mail: Criselda.Caparas@et.eurofinsus.com State of Origin: New Mexico		Job #: 320-88427-1 Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:													
Company: TestAmerica Laboratories, Inc. Address: 4955 Yarrow Street, Arvada, CO, 80002 Phone: 303-736-0100(Tel) 303-431-7171(Fax) Email:		Accreditations Required (See note): M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)													
Due Date Requested: 6/20/2022 TAT Requested (days):		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">Analysis Requested</th> </tr> <tr> <td style="width:33%;"></td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr> <td style="width:33%;"></td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr> <td style="width:33%;"></td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> </table>		Analysis Requested											
Analysis Requested															
Project #: 32020122 Site: KIRKLAND AFB		Total Number of Containers: 3													
Sample Identification - Client ID (Lab ID): 2205C81-001B WUABFFMW01 (320-88427-2)		Special Instructions/Note:													
Sample Date: 5/27/22 Sample Time: 10:15 Mountain Matrix: Water		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> X Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> X 8011/8011 Prep Standard 8011 list													

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify):
 Empty Kit Relinquished by:
 Relinquished by: [Signature] Date: 5-31-22 11:30
 Relinquished by: [Signature] Date/Time: 6-2-2022 1000
 Relinquished by: [Signature] Date/Time: [Blank] Date/Time: [Blank]
 Custody Seal No.: 1711590
 Custody Seals Intact: Yes No
 Colder Temperature(s) °C and Other Remarks: A.A IRD 12 +0.1

Chain of Custody Record



eurofins

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact: Shipping/Receiving		Phone	Caparas Criselda	State of Origin	320-272123 1
Company: Eurofins Environment Testing Southwest		E-Mail	Criselda.Caparas@et.eurofins.com	New Mexico	Page: 1 of 1
Address: 2841 Dow Avenue, Suite 100 City Tustin		Due Date Requested	Job #:		
State, Zip, CA, 92780		TAT Requested (days)	320-88427-1		
Phone: 714-895-5494(Tel)		PO #:	Preservation Codes		
Email		WO #:	A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I- Ice J DI Water K EDTA L EDA Other		
Project Name KIRKLAND AFB		Project # 32020122	M Hexane N None O AsNaO2 P- Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)		
Site:		SSOW#:	Analysis Requested		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)
2205C81-001A WUABFFMW01 (320-88427-1)		5/27/22	10:15 Mountain	C=comp	Water
8260B/5030C (MOD) VOCs, Standard List		Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	8260B/5030C (MOD) VOCs, Standard List	Total Number of Containers
X		X	X	X	3
Special Instructions/Note					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northern California LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northern California, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northern California LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northern California, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV Other (specify)					
Primary Deliverable Rank 0					
Empty Kit Relinquished by					
Relinquished by					
Relinquished by					
Relinquished by					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No					
Cooler Temperature(s) °C and Other Remarks: 12/2-9 / R-92					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Special Instructions/QC Requirements					
Method of Shipment:					
Date/Time: 5-27-22 / 10:30					
Date/Time: 6/1/22					
Date/Time:					
Company: EETSA					
Company:					
Company:					
Company:					



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-88427-1

Login Number: 88427

List Source: Eurofins Sacramento

List Number: 1

Creator: Oropeza, Salvador

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

Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-88427-1

Login Number: 88427
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins Calscience
List Creation: 06/01/22 12:10 PM

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

Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-88427-1

Login Number: 88427

List Number: 3

Creator: Pottruff, Reed W

List Source: Eurofins Denver

List Creation: 06/02/22 03:39 PM

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

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2205C81

RcptNo: 1

Received By: Sean Livingston 5/27/2022 11:50:00 AM

Sean Livingston

Completed By: Sean Livingston 5/27/2022 11:58:02 AM

Sean Livingston

Reviewed By: *Jan 5/27/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Samples were collected the same day and chilled.
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
 (3 or >12 unless noted)
 Adjusted? NO
 Checked by: *[Signature]* 5-27-22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	15.5	Good				

Chain-of-Custody Record

Client: INTERA

Mailing Address: 2440 Louisiana Blvd
ABQ, NM 87110 Suite 700
 Phone #: 505-246-1600

email or Fax#: jtracy@intera.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other

EDD (Type) Full

Turn-Around Time:
 Standard Rush

Project Name:
Data Gap Well
 Project #:
ABWMA, Corp. KAFB

Project Manager:
Joe Tracy

Sampler: L. Price / B. Archuleta

On Ice: Yes No

of Coolers: 1
 Cooler Temp (including CF): 15.5 to 15.5 (C)

Container Type and #	Preservative Type	HEAL No.
3 VOAs	HCL	2205 081
2 VOAs	NATURAL	001
1 L Amber	None	
250 mL plus	HNO3	
125 mL plus	HNO3 (Filtered)	
125 mL plus	H2SO4	
500 mL plus	None	

Date: 5/17/12 Time: 1015 Matrix: GW Sample Name: WVABFFMWD1

Date: 5/21/12 Time: 1150 Relinquished by: [Signature]

Date: 5/27/12 Time: 11:50 Received by: See CR Via: CR

Date: 5/27/12 Time: 11:50 Received by: See CR Via: CR

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMBs (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	X
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	X
8270 (Semi-VOA)	X
Total Coliform (Present/Absent)	
Alkalinity SM 2320B	X
Amims ES8 BrCl, SO ₄ , NO ₂ Nitrate / Nitrite	X
Total Metals 6010 (As, Pb, Cd, Mn)	X
Dissolved Metals 6010 (Fe, Mn)	X

Remarks:
Please overnight to Eurofins (Sacramento, CA)
(ELAP Cert No. 2897)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ELAP CERT. 2897

Analyze the following:

EPA 8260B

EPA 8270

EPA 504.1 EDB

SM2320B

EPA 300.0 – Br, Cl, SO₄, NO₂, NO₃

6010C – As, Pb, Ca, Mg, K, Na

6010C Dissolved - Fe + Mn



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 12, 2022

Joseph Tracy

Intera, Inc.

2440 Louisiana Blvd NE Suite 700

Albuquerque, NM 87110

TEL: (505) 246-1600

FAX: (505) 246-2600

RE: Data Gap Well

OrderNo.: 2208H42

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/29/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-91541-1
Client Project/Site: Kirkland AFB

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/3/2022 6:38:21 PM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	8
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	28
Lab Chronicle	30
Certification Summary	31
Method Summary	32
Sample Summary	33
Chain of Custody	34
Receipt Checklists	54

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Eurofins Sacramento

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Job ID: 320-91541-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-91541-1

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

Receipt Exceptions

The following sample(s) was received outside of holding time:

Sample#1 received with insignificant time for short hold method. Sample was collected on 8/29/22, however the lab did not receive the sample until 8/31/22.

WUAABFFMW01 (320-91541-1).

Upon receipt the lab noticed that sample content in plastic containers were all partly frozen.

WUAABFFMW01 (320-91541-1)

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC):

Client lists to receive 2-500ml plastic container however only 1-500ml container was received, along with a 125ml Plastic with H2SO4 not listed on the COC.

WUAABFFMW01 (320-91541-1).

GC/MS VOA

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 and TBA-d9 for the following samples in analytical batch 320-615741 was outside acceptance criteria: WUAABFFMW01 (320-91541-1), Trip Blank (320-91541-2), (CCV 320-615741/3), (CCV 320-615741/4), (LCS 320-615741/5), (LCSD 320-615741/6) and (MB 320-615741/10). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-615741.

Method 8260B: The initial calibration verification (ICV) result for batch 320-615741 was above the upper control limit for Dichlorodifluoromethane. Sample results were non-detects, and have been reported as qualified data.

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

GC/MS Semi VOA

Method 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-614114 and analytical batch 320-619679 recovered outside control limits for the following analytes: Benzoic acid.

Method 8270C: Surrogate Nitrobenzene-d5 (Surr) and Terphenyl-d14 (Surr) recovery for the following sample was outside control limits: WUAABFFMW01 (320-91541-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C: Surrogate Nitrobenzene-d5 (Surr) recovery above the control limit. All target analyte recoveries were within control limits. The results have been flagged and reported.

(LCSD 320-614114/3-A)

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

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Job ID: 320-91541-1 (Continued)

Laboratory: Eurofins Sacramento (Continued)

GC Semi VOA

Method 504.1: The continuing calibration verification (CCV) associated with batch 400-591456 recovered above the upper control limit for Ethylene Dibromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 504.1, 8011: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-591436.

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

Metals

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

General Chemistry

Method 300.0: Due to the high concentration of chloride in the parent sample, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 320-613450 were over the upper calibration range. The samples have been "E" flagged and reported. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 320-613451 for the analyte nitrite were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following sample in analytical batch 320-613451 was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time. Both the client and the project manager were notified in real time.

WUAABFFMW01 (320-91541-1).

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8270C aqueous in preparation batch 320-614114.

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: WUAABFFMW01 (320-91541-1). This sample is associated with method 8270C aqueous in preparation batch 320-614114.

Nominal volume required by method 8270C is 1000mL.

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

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Toluene	0.19		0.50	0.095	ug/L	1	8260B	Total/NA
Bis(2-ethylhexyl) phthalate	1.6		13	1.3	ug/L	1	8270C	Total/NA
Bromide	0.24		0.50	0.088	mg/L	1	300.0	Total/NA
Chloride	17		1.0	0.37	mg/L	1	300.0	Total/NA
Sulfate	35		1.0	0.36	mg/L	1	300.0	Total/NA
Calcium	28		0.50	0.050	mg/L	1	6010B	Total/NA
Magnesium	3.8		0.50	0.040	mg/L	1	6010B	Total/NA
Potassium	2.8		1.0	0.093	mg/L	1	6010B	Total/NA
Sodium	36		1.0	0.25	mg/L	1	6010B	Total/NA
Iron	0.032		0.10	0.020	mg/L	1	6010B	Dissolved
Manganese	0.53		0.0050	0.0025	mg/L	1	6010B	Dissolved

Client Sample ID: Trip Blank

Lab Sample ID: 320-91541-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/10/22 15:25	1
Benzene	ND		0.50	0.080	ug/L			09/10/22 15:25	1
Bromobenzene	ND		1.0	0.091	ug/L			09/10/22 15:25	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/10/22 15:25	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/10/22 15:25	1
Bromoform	ND		1.0	0.19	ug/L			09/10/22 15:25	1
Bromomethane	ND		1.0	0.21	ug/L			09/10/22 15:25	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/10/22 15:25	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/10/22 15:25	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/10/22 15:25	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/10/22 15:25	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/10/22 15:25	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/10/22 15:25	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/10/22 15:25	1
Chloroethane	ND		1.0	0.24	ug/L			09/10/22 15:25	1
Chloroform	ND		1.0	0.12	ug/L			09/10/22 15:25	1
Chloromethane	ND		1.0	0.26	ug/L			09/10/22 15:25	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/10/22 15:25	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/10/22 15:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/10/22 15:25	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/10/22 15:25	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/10/22 15:25	1
Dibromomethane	ND		0.50	0.17	ug/L			09/10/22 15:25	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/10/22 15:25	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/10/22 15:25	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/10/22 15:25	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/10/22 15:25	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/10/22 15:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/10/22 15:25	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/10/22 15:25	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/10/22 15:25	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/10/22 15:25	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/10/22 15:25	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/10/22 15:25	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/10/22 15:25	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/10/22 15:25	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/10/22 15:25	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/10/22 15:25	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/10/22 15:25	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/10/22 15:25	1
2-Hexanone	ND		2.0	0.17	ug/L			09/10/22 15:25	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/10/22 15:25	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/10/22 15:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/10/22 15:25	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/10/22 15:25	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/10/22 15:25	1
Naphthalene	ND		1.0	0.48	ug/L			09/10/22 15:25	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/10/22 15:25	1
Styrene	ND		0.50	0.13	ug/L			09/10/22 15:25	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/10/22 15:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/10/22 15:25	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/10/22 15:25	1
Toluene	0.19	J	0.50	0.095	ug/L			09/10/22 15:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/10/22 15:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/10/22 15:25	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/10/22 15:25	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/10/22 15:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/10/22 15:25	1
Trichloroethene	ND		0.50	0.10	ug/L			09/10/22 15:25	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/10/22 15:25	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/10/22 15:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/10/22 15:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/10/22 15:25	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/10/22 15:25	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/10/22 15:25	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/10/22 15:25	1
o-Xylene	ND		0.50	0.14	ug/L			09/10/22 15:25	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/10/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		69 - 129		09/10/22 15:25	1
1,2-Dichloroethane-d4 (Surr)	107		66 - 126		09/10/22 15:25	1
Toluene-d8 (Surr)	100		67 - 127		09/10/22 15:25	1
Dibromofluoromethane (Surr)	102		68 - 128		09/10/22 15:25	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Acenaphthylene	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Anthracene	ND		13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzo[a]anthracene	ND		13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzo[b]fluoranthene	ND		13	1.5	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzo[k]fluoranthene	ND		13	1.2	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzo[g,h,i]perylene	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzo[a]pyrene	ND		13	0.87	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzoic acid	ND	*1	64	26	ug/L		09/02/22 11:48	09/24/22 01:41	1
Benzyl alcohol	ND		13	3.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Bis(2-chloroethoxy)methane	ND		13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Bis(2-chloroethyl)ether	ND		13	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
bis (2-chloroisopropyl) ether	ND		13	1.7	ug/L		09/02/22 11:48	09/24/22 01:41	1
Bis(2-ethylhexyl) phthalate	1.6	J	13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Bromophenyl phenyl ether	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Butyl benzyl phthalate	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Chloroaniline	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Chloro-3-methylphenol	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Chloronaphthalene	ND		13	1.7	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Chlorophenol	ND		13	2.1	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Chlorophenyl phenyl ether	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Chrysene	ND		13	0.78	ug/L		09/02/22 11:48	09/24/22 01:41	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
Dibenzofuran	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Di-n-butyl phthalate	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
1,2-Dichlorobenzene	ND		13	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
1,3-Dichlorobenzene	ND		13	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
1,4-Dichlorobenzene	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
3,3'-Dichlorobenzidine	ND		64	1.2	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4-Dichlorophenol	ND		13	3.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Diethyl phthalate	ND		13	1.2	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4-Dimethylphenol	ND		13	2.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Dimethyl phthalate	ND		13	1.1	ug/L		09/02/22 11:48	09/24/22 01:41	1
4,6-Dinitro-2-methylphenol	ND		64	2.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4-Dinitrophenol	ND		64	26	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4-Dinitrotoluene	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,6-Dinitrotoluene	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
Di-n-octyl phthalate	ND		13	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
Fluoranthene	ND		13	0.83	ug/L		09/02/22 11:48	09/24/22 01:41	1
Fluorene	ND		13	1.2	ug/L		09/02/22 11:48	09/24/22 01:41	1
Hexachlorobenzene	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Hexachlorobutadiene	ND		13	1.7	ug/L		09/02/22 11:48	09/24/22 01:41	1
Hexachlorocyclopentadiene	ND		64	6.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Hexachloroethane	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Indeno[1,2,3-cd]pyrene	ND		13	4.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Isophorone	ND		13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Methylnaphthalene	ND		13	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Methylphenol	ND		13	1.2	ug/L		09/02/22 11:48	09/24/22 01:41	1
3-Methylphenol & 4-Methylphenol	ND		26	1.5	ug/L		09/02/22 11:48	09/24/22 01:41	1
Naphthalene	ND		13	1.7	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Nitroaniline	ND		64	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
3-Nitroaniline	ND		64	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Nitroaniline	ND		64	1.9	ug/L		09/02/22 11:48	09/24/22 01:41	1
Nitrobenzene	ND		13	2.1	ug/L		09/02/22 11:48	09/24/22 01:41	1
2-Nitrophenol	ND		13	2.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
4-Nitrophenol	ND		64	7.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
N-Nitrosodiphenylamine	ND		13	0.69	ug/L		09/02/22 11:48	09/24/22 01:41	1
N-Nitrosodi-n-propylamine	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Pentachlorophenol	ND		64	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
Phenanthrene	ND		13	1.3	ug/L		09/02/22 11:48	09/24/22 01:41	1
Phenol	ND		13	1.4	ug/L		09/02/22 11:48	09/24/22 01:41	1
Pyrene	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
Pyridine	ND		26	1.0	ug/L		09/02/22 11:48	09/24/22 01:41	1
1,2,4-Trichlorobenzene	ND		13	1.8	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4,5-Trichlorophenol	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1
2,4,6-Trichlorophenol	ND		13	2.6	ug/L		09/02/22 11:48	09/24/22 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		55 - 140	09/02/22 11:48	09/24/22 01:41	1
2-Fluorobiphenyl (Surr)	60		57 - 98	09/02/22 11:48	09/24/22 01:41	1
2-Fluorophenol (Surr)	54		47 - 87	09/02/22 11:48	09/24/22 01:41	1
Nitrobenzene-d5 (Surr)	59	S1-	64 - 104	09/02/22 11:48	09/24/22 01:41	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	42		29 - 69	09/02/22 11:48	09/24/22 01:41	1
Terphenyl-d14 (Surr)	68	S1-	70 - 118	09/02/22 11:48	09/24/22 01:41	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	118		56 - 150	09/06/22 10:35	09/06/22 14:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.24	J	0.50	0.088	mg/L			08/31/22 12:10	1
Nitrate as N	ND	H	0.25	0.10	mg/L			08/31/22 12:10	1
Chloride	17		1.0	0.37	mg/L			08/31/22 12:10	1
Nitrite as N	ND	H F1	0.25	0.050	mg/L			08/31/22 12:10	1
Sulfate	35		1.0	0.36	mg/L			08/31/22 12:10	1
Nitrate Nitrite as N	ND	H F1	0.25	0.10	mg/L			08/31/22 12:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.012	mg/L		09/07/22 10:50	09/08/22 16:48	1
Calcium	28		0.50	0.050	mg/L		09/07/22 10:50	09/08/22 16:48	1
Lead	ND		0.0050	0.0025	mg/L		09/07/22 10:50	09/08/22 16:48	1
Magnesium	3.8		0.50	0.040	mg/L		09/07/22 10:50	09/08/22 16:48	1
Potassium	2.8		1.0	0.093	mg/L		09/07/22 10:50	09/08/22 16:48	1
Sodium	36		1.0	0.25	mg/L		09/07/22 10:50	09/08/22 16:48	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.032	J	0.10	0.020	mg/L		09/27/22 16:55	09/29/22 11:13	1
Manganese	0.53		0.0050	0.0025	mg/L		09/27/22 16:55	09/30/22 16:20	1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91541-2

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/10/22 14:40	1
Benzene	ND		0.50	0.080	ug/L			09/10/22 14:40	1
Bromobenzene	ND		1.0	0.091	ug/L			09/10/22 14:40	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/10/22 14:40	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/10/22 14:40	1
Bromoform	ND		1.0	0.19	ug/L			09/10/22 14:40	1
Bromomethane	ND		1.0	0.21	ug/L			09/10/22 14:40	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/10/22 14:40	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/10/22 14:40	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/10/22 14:40	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/10/22 14:40	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/10/22 14:40	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91541-2

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/10/22 14:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/10/22 14:40	1
Chloroethane	ND		1.0	0.24	ug/L			09/10/22 14:40	1
Chloroform	ND		1.0	0.12	ug/L			09/10/22 14:40	1
Chloromethane	ND		1.0	0.26	ug/L			09/10/22 14:40	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/10/22 14:40	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/10/22 14:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/10/22 14:40	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/10/22 14:40	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/10/22 14:40	1
Dibromomethane	ND		0.50	0.17	ug/L			09/10/22 14:40	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/10/22 14:40	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/10/22 14:40	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/10/22 14:40	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/10/22 14:40	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/10/22 14:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/10/22 14:40	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/10/22 14:40	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/10/22 14:40	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/10/22 14:40	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/10/22 14:40	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/10/22 14:40	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/10/22 14:40	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/10/22 14:40	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/10/22 14:40	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/10/22 14:40	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/10/22 14:40	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/10/22 14:40	1
2-Hexanone	ND		2.0	0.17	ug/L			09/10/22 14:40	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/10/22 14:40	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/10/22 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/10/22 14:40	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/10/22 14:40	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/10/22 14:40	1
Naphthalene	ND		1.0	0.48	ug/L			09/10/22 14:40	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/10/22 14:40	1
Styrene	ND		0.50	0.13	ug/L			09/10/22 14:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/10/22 14:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/10/22 14:40	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/10/22 14:40	1
Toluene	ND		0.50	0.095	ug/L			09/10/22 14:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/10/22 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/10/22 14:40	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/10/22 14:40	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/10/22 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/10/22 14:40	1
Trichloroethene	ND		0.50	0.10	ug/L			09/10/22 14:40	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/10/22 14:40	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/10/22 14:40	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91541-2

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/31/22 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/10/22 14:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/10/22 14:40	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/10/22 14:40	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/10/22 14:40	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/10/22 14:40	1
o-Xylene	ND		0.50	0.14	ug/L			09/10/22 14:40	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/10/22 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		69 - 129		09/10/22 14:40	1
1,2-Dichloroethane-d4 (Surr)	104		66 - 126		09/10/22 14:40	1
Toluene-d8 (Surr)	98		67 - 127		09/10/22 14:40	1
Dibromofluoromethane (Surr)	101		68 - 128		09/10/22 14:40	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		56 - 150	09/06/22 10:35	09/06/22 15:14	1

Surrogate Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (69-129)	DCA (66-126)	TOL (67-127)	DBFM (68-128)
320-91541-1	WUAABFFMW01	103	107	100	102
320-91541-2	Trip Blank	102	104	98	101
LCS 320-615741/5	Lab Control Sample	101	96	102	102
LCS 320-615741/6	Lab Control Sample Dup	102	100	102	100
MB 320-615741/10	Method Blank	101	103	99	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (55-140)	FBP (57-98)	2FP (47-87)	NBZ (64-104)	PHL (29-69)	TPHL (70-118)
320-91541-1	WUAABFFMW01	85	60	54	59 S1-	42	68 S1-
LCS 320-614114/2-A	Lab Control Sample	93	74	67	84	52	82
LCS 320-614114/3-A	Lab Control Sample Dup	110	87	79	115 S1+	59	94
MB 320-614114/1-A	Method Blank	95	76	70	82	52	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (56-150)
320-91541-1	WUAABFFMW01	118
320-91541-2	Trip Blank	101
LCS 400-591436/2-A	Lab Control Sample	61 p
LCS 400-591436/3-A	Lab Control Sample Dup	60
MB 400-591436/1-A	Method Blank	78

Surrogate Legend

BFB = 4-Bromofluorobenzene

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-615741/10
Matrix: Water
Analysis Batch: 615741

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.8	ug/L			09/10/22 14:17	1
Benzene	ND		0.50	0.080	ug/L			09/10/22 14:17	1
Bromobenzene	ND		1.0	0.091	ug/L			09/10/22 14:17	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/10/22 14:17	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/10/22 14:17	1
Bromoform	ND		1.0	0.19	ug/L			09/10/22 14:17	1
Bromomethane	ND		1.0	0.21	ug/L			09/10/22 14:17	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/10/22 14:17	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/10/22 14:17	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/10/22 14:17	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/10/22 14:17	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/10/22 14:17	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/10/22 14:17	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/10/22 14:17	1
Chloroethane	ND		1.0	0.24	ug/L			09/10/22 14:17	1
Chloroform	ND		1.0	0.12	ug/L			09/10/22 14:17	1
Chloromethane	ND		1.0	0.26	ug/L			09/10/22 14:17	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/10/22 14:17	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/10/22 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/10/22 14:17	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/10/22 14:17	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/10/22 14:17	1
Dibromomethane	ND		0.50	0.17	ug/L			09/10/22 14:17	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/10/22 14:17	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/10/22 14:17	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/10/22 14:17	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/10/22 14:17	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/10/22 14:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/10/22 14:17	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/10/22 14:17	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/10/22 14:17	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/10/22 14:17	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/10/22 14:17	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/10/22 14:17	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/10/22 14:17	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/10/22 14:17	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/10/22 14:17	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/10/22 14:17	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/10/22 14:17	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/10/22 14:17	1
2-Hexanone	ND		2.0	0.17	ug/L			09/10/22 14:17	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/10/22 14:17	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/10/22 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/10/22 14:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/10/22 14:17	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/10/22 14:17	1
Naphthalene	ND		1.0	0.48	ug/L			09/10/22 14:17	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/10/22 14:17	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-615741/10
Matrix: Water
Analysis Batch: 615741

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.13	ug/L			09/10/22 14:17	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/10/22 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/10/22 14:17	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/10/22 14:17	1
Toluene	ND		0.50	0.095	ug/L			09/10/22 14:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/10/22 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/10/22 14:17	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/10/22 14:17	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/10/22 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/10/22 14:17	1
Trichloroethene	ND		0.50	0.10	ug/L			09/10/22 14:17	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/10/22 14:17	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/10/22 14:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/10/22 14:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/10/22 14:17	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/10/22 14:17	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/10/22 14:17	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/10/22 14:17	1
o-Xylene	ND		0.50	0.14	ug/L			09/10/22 14:17	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/10/22 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		69 - 129		09/10/22 14:17	1
1,2-Dichloroethane-d4 (Surr)	103		66 - 126		09/10/22 14:17	1
Toluene-d8 (Surr)	99		67 - 127		09/10/22 14:17	1
Dibromofluoromethane (Surr)	100		68 - 128		09/10/22 14:17	1

Lab Sample ID: LCS 320-615741/5
Matrix: Water
Analysis Batch: 615741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	38.7		ug/L		77	45 - 151
Benzene	20.0	19.9		ug/L		100	67 - 127
Bromobenzene	20.0	22.0		ug/L		110	68 - 128
Bromochloromethane	20.0	19.8		ug/L		99	69 - 129
Bromodichloromethane	20.0	20.5		ug/L		103	69 - 129
Bromoform	20.0	19.6		ug/L		98	64 - 134
Bromomethane	20.0	22.7		ug/L		114	65 - 125
2-Butanone (MEK)	50.0	45.4		ug/L		91	66 - 126
n-Butylbenzene	20.0	20.3		ug/L		102	70 - 130
sec-Butylbenzene	20.0	21.8		ug/L		109	69 - 129
tert-Butylbenzene	20.0	21.2		ug/L		106	68 - 128
Carbon disulfide	20.0	19.8		ug/L		99	66 - 126
Carbon tetrachloride	20.0	22.4		ug/L		112	71 - 131
Chlorobenzene	20.0	20.1		ug/L		100	66 - 126
Chloroethane	20.0	22.9		ug/L		115	67 - 127
Chloroform	20.0	21.1		ug/L		105	68 - 128

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-615741/5
Matrix: Water
Analysis Batch: 615741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	19.1		ug/L		96	64 - 124
2-Chlorotoluene	20.0	21.0		ug/L		105	66 - 126
4-Chlorotoluene	20.0	21.8		ug/L		109	67 - 127
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/L		78	58 - 139
Ethylene Dibromide (EDB)	20.0	20.6		ug/L		103	69 - 129
Dibromochloromethane	20.0	21.1		ug/L		106	70 - 130
Dibromomethane	20.0	19.3		ug/L		96	68 - 128
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	67 - 127
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	66 - 126
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	66 - 126
Dichlorodifluoromethane	20.0	22.0		ug/L		110	53 - 122
1,1-Dichloroethane	20.0	19.6		ug/L		98	67 - 127
1,2-Dichloroethane	20.0	20.9		ug/L		105	66 - 126
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	67 - 127
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	68 - 128
1,1-Dichloroethene	20.0	21.4		ug/L		107	69 - 129
1,2-Dichloropropane	20.0	19.3		ug/L		96	69 - 129
1,3-Dichloropropane	20.0	19.9		ug/L		100	67 - 127
2,2-Dichloropropane	20.0	18.0		ug/L		90	67 - 127
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	19.9		ug/L		99	70 - 130
1,1-Dichloropropene	20.0	21.4		ug/L		107	69 - 129
Ethylbenzene	20.0	20.2		ug/L		101	67 - 127
Hexachlorobutadiene	20.0	19.8		ug/L		99	72 - 134
2-Hexanone	50.0	56.9		ug/L		114	72 - 132
Isopropylbenzene	20.0	19.8		ug/L		99	69 - 129
p-Isopropyltoluene	20.0	21.4		ug/L		107	69 - 129
4-Methyl-2-pentanone (MIBK)	50.0	51.4		ug/L		103	70 - 130
Methyl tert-butyl ether	20.0	18.5		ug/L		93	67 - 127
Methylene Chloride	20.0	19.6		ug/L		98	67 - 127
Naphthalene	20.0	17.2		ug/L		86	60 - 144
N-Propylbenzene	20.0	21.7		ug/L		108	68 - 128
Styrene	20.0	20.1		ug/L		101	69 - 129
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		99	69 - 129
1,1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	68 - 128
Tetrachloroethene	20.0	21.8		ug/L		109	69 - 129
Toluene	20.0	20.8		ug/L		104	68 - 128
1,2,3-Trichlorobenzene	20.0	16.7		ug/L		84	58 - 145
1,2,4-Trichlorobenzene	20.0	16.5		ug/L		82	66 - 135
1,1,1-Trichloroethane	20.0	22.2		ug/L		111	69 - 129
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	69 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.2		ug/L		116	69 - 129
Trichloroethene	20.0	21.7		ug/L		109	69 - 129
Trichlorofluoromethane	20.0	24.2		ug/L		121	69 - 129
1,2,3-Trichloropropane	20.0	21.1		ug/L		105	68 - 128
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	68 - 128
1,3,5-Trimethylbenzene	20.0	21.8		ug/L		109	68 - 128
Vinyl acetate	20.0	17.4		ug/L		87	62 - 140

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-615741/5
Matrix: Water
Analysis Batch: 615741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.7		ug/L		98	65 - 125
m-Xylene & p-Xylene	20.0	20.5		ug/L		102	67 - 127
o-Xylene	20.0	19.6		ug/L		98	68 - 128
Xylenes, Total	40.0	40.1		ug/L		100	68 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		69 - 129
1,2-Dichloroethane-d4 (Surr)	96		66 - 126
Toluene-d8 (Surr)	102		67 - 127
Dibromofluoromethane (Surr)	102		68 - 128

Lab Sample ID: LCSD 320-615741/6
Matrix: Water
Analysis Batch: 615741

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	50.0	38.9		ug/L		78	45 - 151	1	49
Benzene	20.0	20.0		ug/L		100	67 - 127	0	21
Bromobenzene	20.0	22.1		ug/L		110	68 - 128	0	17
Bromochloromethane	20.0	19.4		ug/L		97	69 - 129	2	19
Bromodichloromethane	20.0	21.2		ug/L		106	69 - 129	3	20
Bromoform	20.0	19.2		ug/L		96	64 - 134	2	16
Bromomethane	20.0	23.5		ug/L		118	65 - 125	3	40
2-Butanone (MEK)	50.0	45.5		ug/L		91	66 - 126	0	34
n-Butylbenzene	20.0	20.1		ug/L		101	70 - 130	1	25
sec-Butylbenzene	20.0	21.4		ug/L		107	69 - 129	1	19
tert-Butylbenzene	20.0	21.0		ug/L		105	68 - 128	1	19
Carbon disulfide	20.0	19.8		ug/L		99	66 - 126	0	26
Carbon tetrachloride	20.0	22.6		ug/L		113	71 - 131	1	25
Chlorobenzene	20.0	20.3		ug/L		102	66 - 126	1	15
Chloroethane	20.0	23.5		ug/L		117	67 - 127	2	40
Chloroform	20.0	21.1		ug/L		105	68 - 128	0	22
Chloromethane	20.0	19.5		ug/L		98	64 - 124	2	25
2-Chlorotoluene	20.0	20.8		ug/L		104	66 - 126	1	19
4-Chlorotoluene	20.0	21.6		ug/L		108	67 - 127	1	19
1,2-Dibromo-3-Chloropropane	20.0	15.8		ug/L		79	58 - 139	1	33
Ethylene Dibromide (EDB)	20.0	20.6		ug/L		103	69 - 129	0	15
Dibromochloromethane	20.0	21.2		ug/L		106	70 - 130	0	17
Dibromomethane	20.0	19.1		ug/L		95	68 - 128	1	17
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	67 - 127	1	19
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	66 - 126	1	17
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	66 - 126	0	15
Dichlorodifluoromethane	20.0	22.3		ug/L		112	53 - 122	1	51
1,1-Dichloroethane	20.0	19.6		ug/L		98	67 - 127	0	21
1,2-Dichloroethane	20.0	20.9		ug/L		105	66 - 126	0	25
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	67 - 127	1	18
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	68 - 128	0	20
1,1-Dichloroethene	20.0	21.4		ug/L		107	69 - 129	0	22

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-615741/6
Matrix: Water
Analysis Batch: 615741

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	20.0	19.5		ug/L		97	69 - 129	1	27
1,3-Dichloropropane	20.0	19.8		ug/L		99	67 - 127	1	15
2,2-Dichloropropane	20.0	18.3		ug/L		92	67 - 127	2	25
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	70 - 130	1	24
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	70 - 130	1	29
1,1-Dichloropropene	20.0	21.2		ug/L		106	69 - 129	1	20
Ethylbenzene	20.0	20.3		ug/L		102	67 - 127	1	15
Hexachlorobutadiene	20.0	19.8		ug/L		99	72 - 134	0	30
2-Hexanone	50.0	56.3		ug/L		113	72 - 132	1	31
Isopropylbenzene	20.0	20.1		ug/L		100	69 - 129	1	17
p-Isopropyltoluene	20.0	21.3		ug/L		106	69 - 129	1	18
4-Methyl-2-pentanone (MIBK)	50.0	51.9		ug/L		104	70 - 130	1	33
Methyl tert-butyl ether	20.0	18.6		ug/L		93	67 - 127	0	24
Methylene Chloride	20.0	19.2		ug/L		96	67 - 127	2	20
Naphthalene	20.0	17.6		ug/L		88	60 - 144	3	48
N-Propylbenzene	20.0	21.6		ug/L		108	68 - 128	0	26
Styrene	20.0	20.2		ug/L		101	69 - 129	1	15
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	69 - 129	1	23
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		96	68 - 128	2	27
Tetrachloroethene	20.0	22.0		ug/L		110	69 - 129	1	18
Toluene	20.0	20.5		ug/L		103	68 - 128	1	20
1,2,3-Trichlorobenzene	20.0	17.2		ug/L		86	58 - 145	3	45
1,2,4-Trichlorobenzene	20.0	17.1		ug/L		86	66 - 135	4	40
1,1,1-Trichloroethane	20.0	22.1		ug/L		111	69 - 129	0	25
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	69 - 129	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.1		ug/L		116	69 - 129	0	40
Trichloroethene	20.0	21.6		ug/L		108	69 - 129	0	20
Trichlorofluoromethane	20.0	24.5		ug/L		122	69 - 129	1	41
1,2,3-Trichloropropane	20.0	21.1		ug/L		105	68 - 128	0	22
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		104	68 - 128	1	17
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		110	68 - 128	0	20
Vinyl acetate	20.0	17.0		ug/L		85	62 - 140	2	30
Vinyl chloride	20.0	20.2		ug/L		101	65 - 125	2	33
m-Xylene & p-Xylene	20.0	20.4		ug/L		102	67 - 127	0	15
o-Xylene	20.0	19.6		ug/L		98	68 - 128	0	18
Xylenes, Total	40.0	40.0		ug/L		100	68 - 128	0	16

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		69 - 129
1,2-Dichloroethane-d4 (Surr)	100		66 - 126
Toluene-d8 (Surr)	102		67 - 127
Dibromofluoromethane (Surr)	100		68 - 128

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-614114/1-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614114

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Acenaphthylene	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Anthracene	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzo[a]anthracene	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzo[k]fluoranthene	ND		10	0.96	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzo[g,h,i]perylene	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzo[a]pyrene	ND		10	0.68	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzoic acid	ND		50	20	ug/L		09/02/22 11:48	09/24/22 00:26	1
Benzyl alcohol	ND		10	2.6	ug/L		09/02/22 11:48	09/24/22 00:26	1
Bis(2-chloroethoxy)methane	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
bis (2-chloroisopropyl) ether	ND		10	1.3	ug/L		09/02/22 11:48	09/24/22 00:26	1
Bis(2-ethylhexyl) phthalate	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Bromophenyl phenyl ether	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Butyl benzyl phthalate	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Chloroaniline	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Chloro-3-methylphenol	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Chloronaphthalene	ND		10	1.3	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Chlorophenol	ND		10	1.6	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Chlorophenyl phenyl ether	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Chrysene	ND		10	0.61	ug/L		09/02/22 11:48	09/24/22 00:26	1
Dibenz(a,h)anthracene	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Dibenzofuran	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Di-n-butyl phthalate	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
1,2-Dichlorobenzene	ND		10	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
1,3-Dichlorobenzene	ND		10	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
1,4-Dichlorobenzene	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
3,3'-Dichlorobenzidine	ND		50	0.96	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4-Dichlorophenol	ND		10	2.6	ug/L		09/02/22 11:48	09/24/22 00:26	1
Diethyl phthalate	ND		10	0.93	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4-Dimethylphenol	ND		10	2.2	ug/L		09/02/22 11:48	09/24/22 00:26	1
Dimethyl phthalate	ND		10	0.88	ug/L		09/02/22 11:48	09/24/22 00:26	1
4,6-Dinitro-2-methylphenol	ND		50	2.2	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4-Dinitrophenol	ND		50	20	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Di-n-octyl phthalate	ND		10	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
Fluoranthene	ND		10	0.65	ug/L		09/02/22 11:48	09/24/22 00:26	1
Fluorene	ND		10	0.93	ug/L		09/02/22 11:48	09/24/22 00:26	1
Hexachlorobenzene	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Hexachlorobutadiene	ND		10	1.3	ug/L		09/02/22 11:48	09/24/22 00:26	1
Hexachlorocyclopentadiene	ND		50	5.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Hexachloroethane	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Indeno[1,2,3-cd]pyrene	ND		10	3.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Isophorone	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Methylnaphthalene	ND		10	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Methylphenol	ND		10	0.93	ug/L		09/02/22 11:48	09/24/22 00:26	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-614114/1-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Methylphenol & 4-Methylphenol	ND		20	1.2	ug/L		09/02/22 11:48	09/24/22 00:26	1
Naphthalene	ND		10	1.3	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Nitroaniline	ND		50	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
3-Nitroaniline	ND		50	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Nitroaniline	ND		50	1.5	ug/L		09/02/22 11:48	09/24/22 00:26	1
Nitrobenzene	ND		10	1.6	ug/L		09/02/22 11:48	09/24/22 00:26	1
2-Nitrophenol	ND		10	1.9	ug/L		09/02/22 11:48	09/24/22 00:26	1
4-Nitrophenol	ND		50	6.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
N-Nitrosodiphenylamine	ND		10	0.54	ug/L		09/02/22 11:48	09/24/22 00:26	1
N-Nitrosodi-n-propylamine	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Pentachlorophenol	ND		50	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Phenanthrene	ND		10	1.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
Phenol	ND		10	1.1	ug/L		09/02/22 11:48	09/24/22 00:26	1
Pyrene	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
Pyridine	ND		20	0.80	ug/L		09/02/22 11:48	09/24/22 00:26	1
1,2,4-Trichlorobenzene	ND		10	1.4	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4,5-Trichlorophenol	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1
2,4,6-Trichlorophenol	ND		10	2.0	ug/L		09/02/22 11:48	09/24/22 00:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		55 - 140	09/02/22 11:48	09/24/22 00:26	1
2-Fluorobiphenyl (Surr)	76		57 - 98	09/02/22 11:48	09/24/22 00:26	1
2-Fluorophenol (Surr)	70		47 - 87	09/02/22 11:48	09/24/22 00:26	1
Nitrobenzene-d5 (Surr)	82		64 - 104	09/02/22 11:48	09/24/22 00:26	1
Phenol-d5 (Surr)	52		29 - 69	09/02/22 11:48	09/24/22 00:26	1
Terphenyl-d14 (Surr)	91		70 - 118	09/02/22 11:48	09/24/22 00:26	1

Lab Sample ID: LCS 320-614114/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	86.2		ug/L		86	63 - 103
Acenaphthylene	100	86.0		ug/L		86	60 - 100
Anthracene	100	91.0		ug/L		91	63 - 103
Benzo[a]anthracene	100	90.5		ug/L		91	66 - 109
Benzo[b]fluoranthene	100	90.9		ug/L		91	69 - 109
Benzo[k]fluoranthene	100	90.9		ug/L		91	67 - 107
Benzo[g,h,i]perylene	100	87.9		ug/L		88	63 - 113
Benzo[a]pyrene	100	92.1		ug/L		92	69 - 109
Benzoic acid	200	35.9		ug/L		18	10 - 63
Benzyl alcohol	100	84.8		ug/L		85	63 - 105
Bis(2-chloroethoxy)methane	100	83.1		ug/L		83	62 - 102
Bis(2-chloroethyl)ether	100	83.4		ug/L		83	62 - 102
bis (2-chloroisopropyl) ether	100	73.4		ug/L		73	53 - 100
Bis(2-ethylhexyl) phthalate	100	85.6		ug/L		86	70 - 117
4-Bromophenyl phenyl ether	100	90.5		ug/L		91	64 - 111
Butyl benzyl phthalate	100	87.5		ug/L		87	69 - 116

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-614114/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	100	57.5		ug/L		57	45 - 97
4-Chloro-3-methylphenol	100	91.5		ug/L		91	70 - 111
2-Chloronaphthalene	100	84.6		ug/L		85	60 - 100
2-Chlorophenol	100	86.4		ug/L		86	63 - 103
4-Chlorophenyl phenyl ether	100	89.3		ug/L		89	61 - 112
Chrysene	100	90.9		ug/L		91	64 - 111
Dibenz(a,h)anthracene	100	91.0		ug/L		91	65 - 112
Dibenzofuran	100	86.6		ug/L		87	62 - 103
Di-n-butyl phthalate	100	89.1		ug/L		89	67 - 107
1,2-Dichlorobenzene	100	78.5		ug/L		79	52 - 92
1,3-Dichlorobenzene	100	77.0		ug/L		77	50 - 90
1,4-Dichlorobenzene	100	77.2		ug/L		77	50 - 90
3,3'-Dichlorobenzidine	100	67.6		ug/L		68	52 - 114
2,4-Dichlorophenol	100	88.7		ug/L		89	66 - 106
Diethyl phthalate	100	88.2		ug/L		88	64 - 117
2,4-Dimethylphenol	100	87.6		ug/L		88	65 - 107
Dimethyl phthalate	100	89.8		ug/L		90	65 - 112
4,6-Dinitro-2-methylphenol	200	196		ug/L		98	63 - 118
2,4-Dinitrophenol	200	179		ug/L		90	49 - 128
2,4-Dinitrotoluene	100	95.9		ug/L		96	68 - 120
2,6-Dinitrotoluene	100	92.9		ug/L		93	68 - 116
Di-n-octyl phthalate	100	89.1		ug/L		89	68 - 117
Fluoranthene	100	92.5		ug/L		92	67 - 107
Fluorene	100	88.3		ug/L		88	62 - 109
Hexachlorobenzene	100	91.9		ug/L		92	56 - 124
Hexachlorobutadiene	100	77.3		ug/L		77	45 - 96
Hexachlorocyclopentadiene	100	49.7		ug/L		50	23 - 85
Hexachloroethane	100	75.6		ug/L		76	48 - 88
Indeno[1,2,3-cd]pyrene	100	93.3		ug/L		93	65 - 118
Isophorone	100	84.4		ug/L		84	62 - 102
2-Methylnaphthalene	100	77.4		ug/L		77	58 - 98
2-Methylphenol	100	85.9		ug/L		86	63 - 103
3-Methylphenol & 4-Methylphenol	100	82.8		ug/L		83	60 - 100
Naphthalene	100	81.0		ug/L		81	56 - 96
2-Nitroaniline	100	94.2		ug/L		94	61 - 127
3-Nitroaniline	100	75.7		ug/L		76	46 - 103
4-Nitroaniline	100	92.2		ug/L		92	67 - 112
Nitrobenzene	100	84.1		ug/L		84	64 - 104
2-Nitrophenol	100	90.8		ug/L		91	67 - 108
4-Nitrophenol	200	124		ug/L		62	32 - 89
N-Nitrosodiphenylamine	100	89.0		ug/L		89	64 - 104
N-Nitrosodi-n-propylamine	100	83.7		ug/L		84	63 - 108
Pentachlorophenol	200	207		ug/L		104	57 - 115
Phenanthrene	100	90.3		ug/L		90	62 - 103
Phenol	100	54.5		ug/L		55	32 - 72
Pyrene	100	88.3		ug/L		88	63 - 109
Pyridine	200	121		ug/L		60	41 - 81
1,2,4-Trichlorobenzene	100	79.9		ug/L		80	53 - 93
2,4,5-Trichlorophenol	100	94.4		ug/L		94	66 - 119

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-614114/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	100	91.9		ug/L		92	68 - 119
Surrogate							
	%Recovery	LCS	Qualifier	Limits			
2,4,6-Tribromophenol (Surr)	93			55 - 140			
2-Fluorobiphenyl (Surr)	74			57 - 98			
2-Fluorophenol (Surr)	67			47 - 87			
Nitrobenzene-d5 (Surr)	84			64 - 104			
Phenol-d5 (Surr)	52			29 - 69			
Terphenyl-d14 (Surr)	82			70 - 118			

Lab Sample ID: LCSD 320-614114/3-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	100	87.2		ug/L		87	63 - 103	1	30
Acenaphthylene	100	87.5		ug/L		88	60 - 100	2	30
Anthracene	100	90.6		ug/L		91	63 - 103	0	30
Benzo[a]anthracene	100	91.1		ug/L		91	66 - 109	1	30
Benzo[b]fluoranthene	100	91.4		ug/L		91	69 - 109	1	30
Benzo[k]fluoranthene	100	92.9		ug/L		93	67 - 107	2	30
Benzo[g,h,i]perylene	100	88.7		ug/L		89	63 - 113	1	30
Benzo[a]pyrene	100	92.5		ug/L		92	69 - 109	0	30
Benzoic acid	200	105	*1	ug/L		53	10 - 63	98	30
Benzyl alcohol	100	88.5		ug/L		89	63 - 105	4	30
Bis(2-chloroethoxy)methane	100	87.5		ug/L		87	62 - 102	5	30
Bis(2-chloroethyl)ether	100	86.9		ug/L		87	62 - 102	4	30
bis (2-chloroisopropyl) ether	100	77.2		ug/L		77	53 - 100	5	30
Bis(2-ethylhexyl) phthalate	100	86.3		ug/L		86	70 - 117	1	30
4-Bromophenyl phenyl ether	100	92.1		ug/L		92	64 - 111	2	30
Butyl benzyl phthalate	100	88.3		ug/L		88	69 - 116	1	30
4-Chloroaniline	100	62.9		ug/L		63	45 - 97	9	30
4-Chloro-3-methylphenol	100	93.8		ug/L		94	70 - 111	3	30
2-Chloronaphthalene	100	86.8		ug/L		87	60 - 100	3	30
2-Chlorophenol	100	89.5		ug/L		89	63 - 103	4	30
4-Chlorophenyl phenyl ether	100	88.5		ug/L		88	61 - 112	1	30
Chrysene	100	90.9		ug/L		91	64 - 111	0	30
Dibenz(a,h)anthracene	100	91.8		ug/L		92	65 - 112	1	30
Dibenzofuran	100	88.3		ug/L		88	62 - 103	2	30
Di-n-butyl phthalate	100	89.7		ug/L		90	67 - 107	1	30
1,2-Dichlorobenzene	100	81.5		ug/L		81	52 - 92	4	30
1,3-Dichlorobenzene	100	80.0		ug/L		80	50 - 90	4	30
1,4-Dichlorobenzene	100	79.4		ug/L		79	50 - 90	3	30
3,3'-Dichlorobenzidine	100	70.0		ug/L		70	52 - 114	4	30
2,4-Dichlorophenol	100	91.0		ug/L		91	66 - 106	3	30
Diethyl phthalate	100	87.6		ug/L		88	64 - 117	1	30
2,4-Dimethylphenol	100	89.8		ug/L		90	65 - 107	2	30
Dimethyl phthalate	100	89.2		ug/L		89	65 - 112	1	30

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-614114/3-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	200	198		ug/L		99	63 - 118	1	30
2,4-Dinitrophenol	200	194		ug/L		97	49 - 128	8	30
2,4-Dinitrotoluene	100	96.7		ug/L		97	68 - 120	1	30
2,6-Dinitrotoluene	100	94.0		ug/L		94	68 - 116	1	30
Di-n-octyl phthalate	100	90.2		ug/L		90	68 - 117	1	30
Fluoranthene	100	92.3		ug/L		92	67 - 107	0	30
Fluorene	100	89.4		ug/L		89	62 - 109	1	30
Hexachlorobenzene	100	92.4		ug/L		92	56 - 124	1	30
Hexachlorobutadiene	100	79.8		ug/L		80	45 - 96	3	30
Hexachlorocyclopentadiene	100	52.9		ug/L		53	23 - 85	6	30
Hexachloroethane	100	76.7		ug/L		77	48 - 88	2	30
Indeno[1,2,3-cd]pyrene	100	94.4		ug/L		94	65 - 118	1	30
Isophorone	100	88.0		ug/L		88	62 - 102	4	30
2-Methylnaphthalene	100	80.7		ug/L		81	58 - 98	4	30
2-Methylphenol	100	90.2		ug/L		90	63 - 103	5	30
3-Methylphenol & 4-Methylphenol	100	86.2		ug/L		86	60 - 100	4	30
Naphthalene	100	84.1		ug/L		84	56 - 96	4	30
2-Nitroaniline	100	94.5		ug/L		94	61 - 127	0	30
3-Nitroaniline	100	76.2		ug/L		76	46 - 103	1	30
4-Nitroaniline	100	92.3		ug/L		92	67 - 112	0	30
Nitrobenzene	100	87.7		ug/L		88	64 - 104	4	30
2-Nitrophenol	100	94.1		ug/L		94	67 - 108	4	30
4-Nitrophenol	200	119		ug/L		59	32 - 89	4	30
N-Nitrosodiphenylamine	100	88.8		ug/L		89	64 - 104	0	30
N-Nitrosodi-n-propylamine	100	87.5		ug/L		88	63 - 108	4	30
Pentachlorophenol	200	205		ug/L		103	57 - 115	1	30
Phenanthrene	100	89.8		ug/L		90	62 - 103	0	30
Phenol	100	55.6		ug/L		56	32 - 72	2	30
Pyrene	100	89.1		ug/L		89	63 - 109	1	30
Pyridine	200	119		ug/L		59	41 - 81	1	30
1,2,4-Trichlorobenzene	100	82.3		ug/L		82	53 - 93	3	30
2,4,5-Trichlorophenol	100	95.8		ug/L		96	66 - 119	1	30
2,4,6-Trichlorophenol	100	94.6		ug/L		95	68 - 119	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	110		55 - 140
2-Fluorobiphenyl (Surr)	87		57 - 98
2-Fluorophenol (Surr)	79		47 - 87
Nitrobenzene-d5 (Surr)	115	S1+	64 - 104
Phenol-d5 (Surr)	59		29 - 69
Terphenyl-d14 (Surr)	94		70 - 118

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 400-591436/1-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 13:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	78		56 - 150				09/06/22 10:35	09/06/22 13:50	1

Lab Sample ID: LCS 400-591436/2-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.101	0.0856		ug/L		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	61	p	56 - 150				

Lab Sample ID: LCSD 400-591436/3-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	0.101	0.0828		ug/L		82	70 - 130	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	60		56 - 150						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-613450/3
Matrix: Water
Analysis Batch: 613450

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.088	mg/L			08/31/22 11:31	1
Chloride	ND		1.0	0.37	mg/L			08/31/22 11:31	1
Sulfate	ND		1.0	0.36	mg/L			08/31/22 11:31	1

Lab Sample ID: LCS 320-613450/4
Matrix: Water
Analysis Batch: 613450

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	7.50	7.61		mg/L		101	90 - 110
Chloride	7.50	7.53		mg/L		100	90 - 110
Sulfate	7.50	7.24		mg/L		97	90 - 110

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 320-91541-1 MS
Matrix: Water
Analysis Batch: 613450

Client Sample ID: WUAABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.24		5.00	5.16		mg/L		98	90 - 110
Chloride	17		5.00	22.2	E	mg/L		102	90 - 110
Sulfate	35		5.00	40.5	4	mg/L		103	90 - 110

Lab Sample ID: 320-91541-1 MSD
Matrix: Water
Analysis Batch: 613450

Client Sample ID: WUAABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.24		5.00	5.25		mg/L		100	90 - 110	2	10
Chloride	17		5.00	22.3	E	mg/L		103	90 - 110	0	10
Sulfate	35		5.00	40.5	4	mg/L		104	90 - 110	0	10

Lab Sample ID: MB 320-613451/3
Matrix: Water
Analysis Batch: 613451

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.25	0.10	mg/L			08/31/22 11:31	1
Nitrite as N	ND		0.25	0.050	mg/L			08/31/22 11:31	1
Nitrate Nitrite as N	ND		0.25	0.10	mg/L			08/31/22 11:31	1

Lab Sample ID: LCS 320-613451/4
Matrix: Water
Analysis Batch: 613451

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.50	1.45		mg/L		97	90 - 110
Nitrite as N	1.52	1.53		mg/L		101	90 - 110
Nitrate Nitrite as N	3.02	2.98		mg/L		99	90 - 110

Lab Sample ID: 320-91541-1 MS
Matrix: Water
Analysis Batch: 613451

Client Sample ID: WUAABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND	H	1.00	0.951		mg/L		95	90 - 110
Nitrite as N	ND	H F1	1.52	0.332	F1	mg/L		22	90 - 110
Nitrate Nitrite as N	ND	H F1	2.52	1.28	F1	mg/L		51	90 - 110

Lab Sample ID: 320-91541-1 MSD
Matrix: Water
Analysis Batch: 613451

Client Sample ID: WUAABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND	H	1.00	0.966		mg/L		97	90 - 110	2	10
Nitrite as N	ND	H F1	1.52	0.335	F1	mg/L		22	90 - 110	1	10
Nitrate Nitrite as N	ND	H F1	2.52	1.30	F1	mg/L		52	90 - 110	1	10

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-614240/1-A
Matrix: Water
Analysis Batch: 615423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.012	mg/L		09/07/22 10:50	09/08/22 15:39	1
Calcium	ND		0.50	0.050	mg/L		09/07/22 10:50	09/08/22 15:39	1
Lead	ND		0.0050	0.0025	mg/L		09/07/22 10:50	09/08/22 15:39	1
Magnesium	ND		0.50	0.040	mg/L		09/07/22 10:50	09/08/22 15:39	1
Potassium	ND		1.0	0.093	mg/L		09/07/22 10:50	09/08/22 15:39	1
Sodium	ND		1.0	0.25	mg/L		09/07/22 10:50	09/08/22 15:39	1

Lab Sample ID: LCS 320-614240/2-A
Matrix: Water
Analysis Batch: 615423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.475		mg/L		95	80 - 120
Calcium	25.0	23.9		mg/L		95	80 - 120
Lead	0.250	0.248		mg/L		99	80 - 120
Magnesium	25.0	23.1		mg/L		93	80 - 120
Potassium	25.0	22.7		mg/L		91	80 - 120
Sodium	25.0	23.4		mg/L		93	80 - 120

Lab Sample ID: MB 320-620608/1-A
Matrix: Water
Analysis Batch: 621143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.020	mg/L		09/27/22 16:55	09/29/22 10:57	1

Lab Sample ID: MB 320-620608/1-A
Matrix: Water
Analysis Batch: 621905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.020	mg/L		09/27/22 16:55	09/30/22 16:13	1
Manganese	ND		0.0050	0.0025	mg/L		09/27/22 16:55	09/30/22 16:13	1

Lab Sample ID: LCS 320-620608/2-A
Matrix: Water
Analysis Batch: 621143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.13		mg/L		103	80 - 120

Lab Sample ID: LCS 320-620608/2-A
Matrix: Water
Analysis Batch: 621905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.77		mg/L		95	80 - 120
Manganese	0.250	0.251		mg/L		100	80 - 120

Eurofins Sacramento

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

GC/MS VOA

Analysis Batch: 615741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	8260B	
320-91541-2	Trip Blank	Total/NA	Water	8260B	
MB 320-615741/10	Method Blank	Total/NA	Water	8260B	
LCS 320-615741/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-615741/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 614114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	3510C	
MB 320-614114/1-A	Method Blank	Total/NA	Water	3510C	
LCS 320-614114/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 320-614114/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 619679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	8270C	614114
MB 320-614114/1-A	Method Blank	Total/NA	Water	8270C	614114
LCS 320-614114/2-A	Lab Control Sample	Total/NA	Water	8270C	614114
LCSD 320-614114/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	614114

GC Semi VOA

Prep Batch: 591436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	504.1	
320-91541-2	Trip Blank	Total/NA	Water	504.1	
MB 400-591436/1-A	Method Blank	Total/NA	Water	504.1	
LCS 400-591436/2-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 400-591436/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	

Analysis Batch: 591456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	504.1	591436
320-91541-2	Trip Blank	Total/NA	Water	504.1	591436
MB 400-591436/1-A	Method Blank	Total/NA	Water	504.1	591436
LCS 400-591436/2-A	Lab Control Sample	Total/NA	Water	504.1	591436
LCSD 400-591436/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	591436

HPLC/IC

Analysis Batch: 613450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	300.0	
MB 320-613450/3	Method Blank	Total/NA	Water	300.0	
LCS 320-613450/4	Lab Control Sample	Total/NA	Water	300.0	
320-91541-1 MS	WUAABFFMW01	Total/NA	Water	300.0	
320-91541-1 MSD	WUAABFFMW01	Total/NA	Water	300.0	

Eurofins Sacramento

QC Association Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

HPLC/IC

Analysis Batch: 613451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	300.0	
MB 320-613451/3	Method Blank	Total/NA	Water	300.0	
LCS 320-613451/4	Lab Control Sample	Total/NA	Water	300.0	
320-91541-1 MS	WUAABFFMW01	Total/NA	Water	300.0	
320-91541-1 MSD	WUAABFFMW01	Total/NA	Water	300.0	

Metals

Prep Batch: 614240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	3010A	
MB 320-614240/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-614240/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 615423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	6010B	614240
MB 320-614240/1-A	Method Blank	Total/NA	Water	6010B	614240
LCS 320-614240/2-A	Lab Control Sample	Total/NA	Water	6010B	614240

Prep Batch: 620608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Dissolved	Water	3010A	
MB 320-620608/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 621143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Dissolved	Water	6010B	620608
MB 320-620608/1-A	Method Blank	Total/NA	Water	6010B	620608
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	6010B	620608

Analysis Batch: 621905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Dissolved	Water	6010B	620608
MB 320-620608/1-A	Method Blank	Total/NA	Water	6010B	620608
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	6010B	620608

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	615741	09/10/22 15:25	SS	EET SAC
Total/NA	Prep	3510C			779.3 mL	1 mL	614114	09/02/22 11:48	AS	EET SAC
Total/NA	Analysis	8270C		1	1 mL	1 mL	619679	09/24/22 01:41	Y1S	EET SAC
Total/NA	Prep	504.1			35.2 mL	35 mL	591436	09/06/22 10:35	DS	EET PEN
Total/NA	Analysis	504.1		1			591456	09/06/22 14:53	DS	EET PEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	613450	08/31/22 12:10	Y1S	EET SAC
Total/NA	Analysis	300.0		1	10 mL	10 mL	613451	08/31/22 12:10	Y1S	EET SAC
Dissolved	Prep	3010A			50 mL	50 mL	620608	09/27/22 16:55	JP	EET SAC
Dissolved	Analysis	6010B		1			621905	09/30/22 16:20	SP	EET SAC
Dissolved	Prep	3010A			50 mL	50 mL	620608	09/27/22 16:55	JP	EET SAC
Dissolved	Analysis	6010B		1			621143	09/29/22 11:13	SP	EET SAC
Total/NA	Prep	3010A			50 mL	50 mL	614240	09/07/22 10:50	JP	EET SAC
Total/NA	Analysis	6010B		1			615423	09/08/22 16:48	SP	EET SAC

Client Sample ID: Trip Blank

Lab Sample ID: 320-91541-2

Date Collected: 08/29/22 00:00

Matrix: Water

Date Received: 08/31/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	615741	09/10/22 14:40	SS	EET SAC
Total/NA	Prep	504.1			35 mL	35 mL	591436	09/06/22 10:35	DS	EET PEN
Total/NA	Analysis	504.1		1			591456	09/06/22 15:14	DS	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-1

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Nitrate Nitrite as N

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET SAC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAC
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	EET PEN
300.0	Anions, Ion Chromatography	MCAWW	EET SAC
6010B	Metals (ICP)	SW846	EET SAC
3010A	Preparation, Total Metals	SW846	EET SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET SAC
504.1	Microextraction	EPA-DW	EET PEN

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91541-1	WUAABFFMW01	Water	08/29/22 10:25	08/31/22 09:10
320-91541-2	Trip Blank	Water	08/29/22 00:00	08/31/22 09:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



CHAIN OF CUSTODY RECORD

PAGE: **1** OF: **1**

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975
 FAX: 505-345-4107
 Website: www.hallenvironmental.com

SUB CONTRACTOR		COMPANY		PHONE	FAX	
Eurofins Sacramento				(916) 373-5600		
ADDRESS		ACCOUNT #		EMAIL		
880 Riverside Parkway						
CITY, STATE, ZIP		ANALYTICAL COMMENTS				
West Sacramento, CA 95605						
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	CONTAINERS
1	2208H42-001A	WUAABFFMW01	VOAHCL	Groundw	8/29/2022 10 25 00 AM	3 8260
2	2208H42-001B	WUAABFFMW01	VOANA2S20	Groundw	8/29/2022 10 25 00 AM	2 EDB <i>by 504.1</i>
3	2208H42-001C	WUAABFFMW01	1LAMGU	Groundw	8/29/2022 10 25 00 AM	1 8270
4	2208H42-001D	WUAABFFMW01	500ML COMBO	Groundw	8/29/2022 10 25 00 AM	2 Br, Cl, SO4, NO2 by 300.0 NO2+NO3 by 353.2
5	2208H42-001E	WUAABFFMW01	250HDPEHN O3	Groundw	8/29/2022 10 25 00 AM	1 Total Metals by 6010 As, Pb, Ca, Mg, K, Na
6	2208H42-001F	WUAABFFMW01	125HDPHNO	Groundw	8/29/2022 10 25 00 AM	1 Dissolved Metals by 6010 Fe, Mn
7	2208H42-002A	Trip Blank	VOAHCL	Trip		2 8260
8	2208H42-002B	Trip Blank	VOANA2S20	Trip		1 EDB <i>by 504.1</i>



320-91541 Chain of Custody

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

1-3c

Requested by: <i>See</i>	Date: 8/30/2022	Time: 9:27 AM	Received By: <i>[Signature]</i>	Date: 8/30/2022	Time: 4:12
Retrieved by:	Date:	Time:	Received By:	Date:	Time:
Retrieved by:	Date:	Time:	Received By:	Date:	Time:
IAF	Standard <input checked="" type="checkbox"/>	RI SH	Next BD <input type="checkbox"/>	3rd BD <input type="checkbox"/>	4th BD <input type="checkbox"/>
REPORT (TRANSMIT) DESIRED <input type="checkbox"/> HART/CP/COM/CO2 <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> PHONE FOR LAB USE ONLY Temp. of samples: _____ Analyzed on: _____ Comments: _____					

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Eurofins Environment Testing Southeast, Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email: Project Name: Kirkland AFB Site:		Sampler: Caparas, Criselda Lab PM: Caparas, Criselda E-Mail: Criselda.Caparas@et.eurofins.com State of Origin: New Mexico Carrier Tracking No(s): 320-282793.1 Page: Page 1 of 1 Job #: 320-91541-1	
Due Date Requested: 9/21/2022 TAT Requested (days):		Analysis Requested M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (Specify) Other:	
Accreditations Required (See note): Dept. of Defense ET AP - A21 A; Dept. of Defense ELAP - A ...		Total Number of containers	
Perform MS/MSD (Yes or No) Field Filled Sample (Yes or No)		Special Instructions/Note: 504.1/504.1 Prep EDB only	
PO #: WO #: Project #: 32020710 SSOW#:		Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, As=Air)	
Sample Identification - Client ID (Lab ID)		Preservation Code:	
WUAABFFMMW01 (320-91541-1) Trip Blank (320-91541-2)		Water Water	
8/29/22 10:25 Mountain		X X	
8/29/22 Mountain		2 1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northern California, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northern California, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northern California, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northern California, LLC.			
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 1		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Date:		Special Instructions/QC Requirements: Method of Shipment:	
Relinquished by: [Signature] Date/Time: 9-22-22 / 16:30 Company: ETSAL		Date/Time: 9/13/22 0945 Company: ETSAL	
Relinquished by: Date/Time:		Date/Time:	
Relinquished by: Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 2.0°C IRB	




United States Department of Agriculture
Animal and Plant Health Inspection Service
Plant Protection & Quarantine
4700 River Road
Riverdale, MD 20737

Permit to Receive Soil
Regulated by 7 CFR 330

This permit was generated electronically via the ePermits system.

PERMITTEE NAME:	Ms. Stephanie G Wilson	PERMIT NUMBER:	P330-21-00056
COMPANY:	Eurofins/TestAmerica	APPLICATION NUMBER:	P525-210216-002
ADDRESS:	3355 McLemore Dr. Pensacola, FL 32514	DATE ISSUED:	03/16/2021
MAILING ADDRESS:	3355 McLemore Dr. Pensacola, FL 32514	EXPIRES:	05/17/2024
PHONE:	(850) 474-1001 Ext. 6240	HAND CARRY:	No
ALT. PHONE:	850-712-0954	FACILITY NUMBER:	6345
EMAIL:	Stephanie.wilson@eurofinset.com	FACILITY:	TestAmerica Lab(s), Inc.
FAX:		ACCOUNT:	
		RESEARCH CENTER:	
		FACILITY NAME:	
		FACILITY ADDRESS:	3355 McLemore Drive Pensacola, Florida 32514
		FACILITY GPS:	
		MAIL ADDRESS:	3355 McLemore Drive Pensacola, Florida 32514 Daniel Waite
		FACILITY CONTACT:	
		PHONE:	850-471-6214
		ALT. PHONE:	
		FAX:	
		EMAIL:	Daniel.Waite@TestAmericainc.com

PORTS OF ARRIVAL/PLANT INSPECTION STATIONS: AK, Anchorage; AL, Huntsville; AL, Mobile; AZ, Douglas; AZ, Lukeville; AZ, Naco; AZ, Nogales; AZ, Phoenix; AZ, San Luis; AZ, Tucson; CA, Calexico; CA, El Segundo; CA, Fresno; CA, Long Beach; CA, Oakland; CA, Ontario; CA, Otay Mesa; CA, Port Hueneme; CA, Sacramento; CA, San Diego; CA, San Jose; CA, San Ysidro; CA, South San Francisco; CA, Tecate; CO, Denver; CT, Hartford; CT, New Haven; DE, Dover; DE, Wilmington; FL, Ft. Lauderdale; FL, Ft. Myers; FL, Ft. Pierce; FL, Jacksonville; FL, Key West; FL, Miami; FL, Miami (Cargo, DHL, Fed Ex, UPS, etc.); FL, Orlando; FL, Pensacola; FL, Port Canaveral; FL, Port Everglades; FL, Sanford; FL, Tampa; FL, West Palm Beach; GA, Atlanta; GA, Savannah; GU, Agana; HI, Hilo; HI, Honolulu; HI, Kahului; HI, Kailua-Kona; HI, Lihue; ID, Eastport; IL, Chicago; IN, Indianapolis; KY, Louisville; MA, South Boston; MD, Baltimore; MD, Laurel; ME, Bangor; ME, Calais; ME, Houlton; ME, Portland; MI, Detroit; MI, Port Huron; MI, Romulus; MI, Sault Saint Marie; MN, Duluth; MN, Grand Portage; MN, International Falls; MN, Minneapolis; MO, Kansas City; MO, St. Louis; MP, Commonwealth of the Northern Mariana Islands; MS, Gulfport; MS, Port Bienville; MT, Raymond; MT, Roosville; MT, Sweetgrass; NC, Raleigh; NC, Wilmington; ND, Dunsceith; ND, Pembina; ND, Portal; NJ, Linden; NM, Albuquerque; NM, Columbus; NM, SantaTeresa; NV, Las Vegas; NY, Albany; NY, Alexandria Bay; NY, Brooklyn; NY, Buffalo; NY, Champlain, Rouses Point; NY, Jamaica; NY, Newburgh; OH, Ashtabula; OH, Cincinnati; OH, Cleveland; OH, Columbus; OH, Toledo; OH, Wilmington; OK, Oklahoma City; OR, Portland; PA, Allentown; PA, Harrisburg; PA, Philadelphia; PA, Pittsburgh; PA, Scranton; PR, Aguadilla; PR, Carolina; PR, Fajardo; PR, Mayaguez; PR, Ponce; RI, Warwick/Providence; SC, Charleston; TN, Memphis; TN, Nashville; TX, Austin; TX,

Permit Number P330-21-00056	
THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
 Gibbs Smith	03/16/2021

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

Brownsville; TX, Corpus Christi; TX, Dallas; TX, Del Rio; TX, Eagle Pass; TX, El Paso; TX, Fabens; TX, Falcon; TX, Fort Hancock; TX, Freeport; TX, Galveston; TX, Hidalgo; TX, Humble; TX, Laredo; TX, Los Indios; TX, Pharr; TX, Port Arthur; TX, Presidio; TX, Progresso; TX, Rio Grande City; TX, Roma; TX, San Antonio; TX, Victoria; UT, Salt Lake City; VA, Dulles; VA, Norfolk; VI, St. Croix; VI, St. Thomas; VT, Berlin; WA, Blaine; WA, Oroville; WA, Port Angeles; WA, SeaTac; WA, Sumas; WI, Green Bay; WI, Milwaukee

Under the conditions specified, this permit authorizes the following:

Quantity of Soil per Shipment and Treatment

Over 3 lbs - Your facility **MUST** be inspected and approved to receive this soil

SPECIAL INSTRUCTIONS TO INSPECTORS

See permit conditions below

INSTRUCTIONS TO DHS CBP INSPECTORS FOR IMPORTED SOIL SHIPMENTS ROUTED TO RECEIVING FACILITY:

For hand carry of soil, an official of CBP Agricultural Programs and Trade Liaison (APTL) would have been notified to document and facilitate the entry of the soil (See hand carry conditions below if stipulated).

Otherwise:

- 1) Confirm that the shipment under this USDA PPQ P330 permit is under bond to the point of entry.
- 2) Validate the permit in ePermits using the CBP search feature.
- 3) Confirm that the imported shipment has a valid USDA PPQ Form 550 Black/White label.
- 4) For questions or concerns, contact the USDA-APHIS-PPQ Permit Unit in Riverdale, MD, at 866-524-5421 and ask to speak with a compliance officer.

PERMIT GUIDANCE

- 1) Receipt or use of foreign isolates or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury; please refer to <https://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx>
- 2) This permit does not authorize importation, interstate movement, possession, and/or use of strains of genetically engineered regulated materials/organisms (created by the use of recombinant DNA technology).
- 3) If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to http://www.aphis.usda.gov/import_export/animals/animal_import/animal_imports_anproducts.sh tml
- 4) If a human pathogen is identified, please refer to the CDC Etiologic Agent Import Permit Program at <http://www.cdc.gov/od/eaipp/>
- 5) This permit does not fulfill the requirements of other federal or state regulatory authorities. Please contact the appropriate agencies, such as the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, the APHIS Biotechnology Regulatory Services, or your State's Department of Agriculture to ensure proper permitting.
- 6) If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date of this permit to ensure continued coverage. Permits requiring containment

Permit Number P330-21-00056

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.



Gibbs Smith

DATE

03/16/2021

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

facilities may take a longer period of time to process.

PERMIT CONDITIONS

CHEMICAL/PHYSICAL ANALYSIS IMPORTATION


USDA-APHIS issues this permit to Ms. Stephanie G Wilson with Eurofins/TestAmerica in Pensacola, Florida. The permit authorizes the importation of soil from all foreign sources (except countries with sanctions or embargoes by U.S. State Department) only for chemical/physical analysis in a controlled laboratory environment at the named facility on the permit.

1. This permit is issued by the United States Department of Agriculture’s Animal and Plant Health Inspection Service (APHIS). It conveys APHIS regulations and requirements for the material(s) listed on this permit. It does not reduce or eliminate your legal duty and responsibility to comply with all other applicable Federal and State regulatory requirements.

- A copy of the permit or the permit number must accompany the shipment.
- You must be an individual at least 18 years old, or legal entity such as partnership, corporation, association, or joint venture.
- You are legally responsible for complying with all permit requirements and permit conditions.
- The regulated material and shipping container(s) are subject to inspection by officials of U.S. Customs and Border Protection (CBP) and APHIS. CBP or APHIS officials may require the shipment to be treated, seized, re-exported, or destroyed (in part or whole). You will be responsible for any associated expenses.
- If you violate any applicable laws associated with this permit, you may face substantial civil or criminal penalties. We may cancel all current permits and deny future permit applications.
- Without prior notice and during reasonable hours, authorized Federal and State Regulators must be allowed to inspect the conditions associated with the regulated materials/organisms authorized under this permit.

2. The Permit holder must comply with all the items listed below. In cases where notification is required, the notification must be made to the PPQ Pest Permit Staff at 866-524-5421 or pest.permits@usda.gov within one business day of the event triggering a notification. You must also notify the PPQ State Plant Health Director (SPHD) in your State. Access the list of SPHDs at https://www.aphis.usda.gov/aphis/ourfocus/planthealth/ppq-program-overview/ct_sphd.

- maintain a valid PPQ 330 permit as long as any portion of the regulated soil has not been treated or disposed of in accordance with these permit conditions,
- maintain an official permanent work assignment or affiliation at the address on this permit,
- notify PPQ of any change in the permit holder's work assignment, place of business, or affiliation,
- not assign or transfer this permit to other persons without prior PPQ authorization,
- notify PPQ of the receipt of an unauthorized and/or misdirected shipment of regulated soil and hold it until further instruction from PPQ,
- notify PPQ if the shipment includes any unusual/unexpected contents (including live insects and snails)

Permit Number P330-21-00056	
<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITTS.</p> <div style="text-align: center;">  </div> <p>Gibbs Smith</p>	<p>DATE</p> <p>03/16/2021</p>

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C. 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

- and take all prudent measures to contain them until further instruction from PPQ,
- notify PPQ of any unauthorized or accidental release of the regulated soil and adequately mitigate the resulting environmental impacts,
 - notify PPQ if the facility or equipment is damaged, destroyed, or otherwise compromised,
 - notify PPQ if you intend to let your permit expire and you will no longer receive, handle, and/or dispose of regulated soil.

3. Prohibitions/Limitations:

Regulated soil must not be used:

- in field research or for other release into the environment before sterilization,
- for isolating, culturing, extracting, or concentrating live organisms,
- as a growing medium, unless specifically authorized in this permit.

4. Shipping/Movement

1) All shipments must consist of at least two inner packages and an outer shipping container securely sealed so that all prevent unauthorized loss of the regulated soil. The innermost packages (e.g. polythene super sacks, sealed drums, yard plastic-lined boxes, etc.) must be sealed and adequate to withstand pressure, temperature, and other climatic conditions incidental to shipment. The outer container must be rigid and durable enough to remain sealed and structurally intact to endure typical shipping conditions (dropping, stacking, impact from other freight, etc.). The conveyance must be secured by a lock, seal, or similar device. The permit holder is responsible for communicating these requirements to the shipper.

2) For soil that originates in Hawaii and Puerto Rico, a copy of this permit or permit number and the shipment must be presented to APHIS-Plant Protection and Quarantine (PPQ) for inspection and clearance prior to departure. For soil that originates in the U.S. Virgin Islands, a copy of this permit or the permit number and the shipment must be presented to APHIS-PPQ in Puerto Rico for inspection and clearance prior to arrival in mainland U.S. For more information on how to ship your package to APHIS-PPQ in Puerto Rico, visit our website at:


https://www.aphis.usda.gov/aphis/ourfocus/planthealth/import-information/permits/plant-pes-ts/sa_soil/soil-shipping-requirements.

Following inspection, soil shipments from Hawaii, Puerto Rico, and the U.S. Virgin Islands are authorized to enter at any arrival point on the mainland U.S.

3) Unless the regulated soil is hand carried by an individual specifically authorized in this permit, it must be shipped by bonded carrier to the port of entry. Following release by CBP, further movement to the APHIS-PPQ approved facility must occur by means of a generally recognized commercial carrier.

4) The shipment must be free from foreign matter or debris, plants and plant parts, and other macro-organisms, such as insects, cyst nematodes, mollusks and acari. Regulated material commingled with unauthorized material will be treated, seized, re-exported, or destroyed (in part or whole).

5) All solid wood packing material (SWPM) accompanying the shipment must be in compliance with

Permit Number P330-21-00056	
THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.  Gibbs Smith	DATE 03/16/2021

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

ISPM 15 treatment regulations and IPPC stamp requirements and enforcement. Noncompliant shipments will be treated, re-exported or destroyed at the consignee's expense.

6) Further distribution or movement of the regulated soil is not allowed without prior approval from the APHIS-PPQ SPHD in your State. Access the list of SPHDs at <https://www.aphis.usda.gov/aphis/ourfocus/planthealth/ppq-program-overview/sphd>. For such movements, you must follow the packaging standards described in these permit conditions, except that the use of black and white labels is not required.

7) Certain domestic mainland soil is regulated separately under 7 CFR 301. This permit does NOT authorize the movement of such soil. For further information on the movement of domestic mainland soil visit: https://www.aphis.usda.gov/aphis/ourfocus/planthealth/import-information/permits/regulated-orga-nism-and-soil-permits/sa_soil/ct_domestic_soil.

5. Shipping Labels/Labeling

After issuance of this P330 permit and prior to importation, you will need to request PPQ Form 550 Black/White shipping label(s) at least 5 business days in advance of shipping date. If you applied online using ePermits, you may request the labels using the My Shipments/Labels feature. Otherwise, send your request to BlackWhiteGreenYellowlabelrequest@usda.gov. Specify the permit number and the total number of labels needed. All email requests must come from the permit holder or appointee and if requested by the appointee, they must Cc the permit holder on all requests. You may request additional labels the same way. We will send you the labels by email as a pdf.


A label must be attached with clear tape to the exterior of each package being imported under this permit. (It is NOT necessary to provide a shipping label for every sample contained within one package e.g. 5 bottles/bags/vials within one box needs only ONE label, not five). The labels have detailed instructions for use on the reverse side. You are responsible for instructing your shipper to carefully follow these instructions. You are responsible for each import shipping label issued under this permit. Failure to do so may result in refused entry or destruction of your package.

Enclose the following supplemental information in each shipment:

- Permittee Name
- Permit number
- Label number

Underlying packaging/wrapping must carry the address, billing, and any other information required to direct the shipment to its final destination (i.e., the permit holder's address; N.B., USDA APHIS does not defray any additional shipping costs incurred for transiting the shipment through an inspection station as the initial US destination).

NOTE: the PPQ Form 550 Black/White label is NOT required on shipments of soil that originate in Hawaii, Puerto Rico, and the U.S. Virgin Islands.

Permit Number P330-21-00056	
<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p> <div style="text-align: center;">  </div> <p>Gibbs Smith</p>	<p>DATE</p> <p style="text-align: center;">03/16/2021</p>

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

6. Facility (Storage/Handling)

1) All regulated soil must be safeguarded at all times during movement, handling, and storage, until sterilized by one of the treatment method(s) specified in this permit. Upon arrival at the APHIS-PPQ approved facility, the regulated soil must be stored in two levels of secured containment until transferred or sterilized. As long as regulated soil is present, the containment and all other affected areas of the facility must be restricted to access by authorized personnel only.

2) All containers and storage areas will be labeled: "Regulated Soil – Sterilize before Disposal" (or an acceptable equivalent). The secured containment area must store only regulated material or, if the area also houses unregulated material, the regulated material must be clearly segregated from the unregulated material as well as being appropriately labeled.

3) The permit holder is responsible for the activities of those individuals working with the regulated soil. Everyone handling the regulated soil must read, agree to, and initial the permit conditions before working with or handling the regulated material. These initialed conditions do not need to be submitted to APHIS-PPQ but must be readily accessible in the event of an inspection and presented upon request.

4) Modifications to the facility or any procedural changes that affect the handling of the regulated soil must be approved by APHIS-PPQ prior to making changes. Please contact the PPQ Pest Permit Staff (email: pest.permits@usda.gov; phone: 866-524-5421; address: 4700 River Road, Unit 133, Riverdale, MD 20737; fax: 301-734-8700).

7. 1) Treatment/Disposal

All decontamination, sterilization, and disposal must comply with one of the methods authorized by the permit conditions. Prior to disposal, all regulated soil must be sterilized by one of the following methods:

Autoclave

- a. Autoclave at 121 Celsius (250 Fahrenheit) for a minimum of 30 minutes at 15 psi.
- b. Place autoclave tape or other indicators on each load prior to treatment. Check the autoclave tape or other indicator on each container to verify color change before disposal.
- c. Calibrate annually according to the manufacturer's instructions and maintain written records.
- d. Use a commercially available biological indicator kit every 3 months, containing bacterial spores (e.g. *Geobacillus stearothermophilus* species) that are rendered unviable at 121 Celsius (250 Fahrenheit). Follow the manufacturer's instructions. Service and retest the autoclave if any growth is observed.


Dry Heat

Use one of the following minimum temperature ranges and minimum exposure time combinations:

110 – 120.5 Celsius (230 – 249 Fahrenheit) for 16 hours

121 – 154 Celsius (250 – 309 Fahrenheit) for 2 hours

Permit Number P330-21-00056

<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>  <p>Gibbs Smith</p>	<p>DATE</p> <p>03/16/2021</p>
--	-------------------------------

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C. 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C. 1001)

- 154.4 – 192.5 Celsius (310 – 379 Fahrenheit) for 30 minutes
- 193 – 220 Celsius (380 – 429 Fahrenheit) for 4 minutes
- 221 – 232 Celsius (430 – 450 Fahrenheit) for 2 minutes

NOTE: Time starts when the entire sample reaches the required temperature and you must utilize a suitable temperature probe or currently calibrated thermometer for verification. The soil must be spread evenly throughout the chamber and not exceed 6 inches in depth.

Hydroclave

- a. Hydroclave at a minimum of 121 Celsius (250 Fahrenheit) for a minimum of 30 minutes, or at a minimum of 132 Celsius (267 Fahrenheit) for a minimum of 15 minutes.
- b. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature.
- c. Calibrate the hydroclave annually according to the manufacturer’s instructions and maintain written records.

Incineration

With the exception of metal and glass containers, all regulated and associated material must be reduced completely to ash at the end of the incineration cycle.


As an alternative to the sterilization requirements listed above, disposal of regulated soil and any material contaminated with regulated soil may be conducted off site by a Disposal Facility holding a current PPQ Permit for Bulk Disposal or a Compliance Agreement for Bulk Disposal. Vendor may or may not be in the same state. SPHD approval is required prior to any movement of the regulated soil and approval is required in both the sending state and receiving state. Access the list of SPHDs at https://www.aphis.usda.gov/aphis/ourfocus/planthealth/ppq-program-overview/ct_sphd. All regulated soil and any material contaminated with regulated soil must be double contained during transport to the Disposal Facility to prevent any unauthorized dissemination of the regulated soil. For records maintenance requirements, refer to the record keeping permit condition.

No other sterilization methods are allowed without prior review and approval from PPQ Pest Permit Unit Staff. .

8. Decontamination of surfaces, tools, equipment, supplies and related materials

1) Unless other disposal arrangements have been approved in advance by PPQ Pest Permit Staff, all items coming in direct contact with, or exposed to, the regulated soil – including but not limited to glassware, countertops, equipment, waste material, effluent, and shipping materials -- must be sterilized/sanitized/decontaminated prior to re-use or removal from the APHIS-PPQ approved facility, and prior to the expiration of this permit.

2) Use any of the following, either alone or in combination:

Permit Number P330-21-00056	
<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p> <div style="text-align: center;">  </div> <p>Gibbs Smith</p>	<p>DATE</p> <p>03/16/2021</p>

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C s 1001)

- a) immersed in minimum of .525 percent sodium hypochlorite (household bleach from the bottle is a minimum of 5 percent) for at least 20 minutes
- b) immersed in 70 percent alcohol or ethanol for at least 30 minutes,
- c) treated with quaternary ammonium compounds per manufacturer's specifications,
- d) using one of the soil sterilization methods above.

3) Hydroclave or autoclave effluent as stipulated above.

9. Training requirements/Records/Record-Keeping

1) Standard Operating Procedures (SOPs) must be filed with, and approved by, the PPQ Pest Permit Staff at: email: pest.permits@usda.gov; phone: 866-524-5421; fax: 301-734-8700; address: River Road, Unit 133, Riverdale, MD 20737. All contact information must be kept current and the SOPs must be dated. If requirements in the permit conditions are more restrictive than the SOPs, the permit conditions take precedence. APHIS-PPQ must approve any changes to the SOPs before implementation. At a minimum, the SOP should describe how you will maintain compliance with APHIS-PPQ regulations. It must include how you plan to: transport, handle/process, store, safeguard, treat, and dispose of the regulated soil, effluent, and anything else coming into contact with the regulated soil. The SOP must also contain instructions regarding the cleanup of potential spillage of regulated soil and must be posted in areas where soil is stored and processed. A current copy of the SOP must be available at the time of facility inspection.

2) All employees working with the regulated soil must complete annual training. The training must cover the requirements on this permit and the Standard Operating Procedures submitted to APHIS-PPQ. Both a copy of the permit and the SOPs must be available at all times for the facility staff to consult.


Training records on each employee must be maintained for a period of three (3) years from the date the record was created and a list of all persons working with the soil in the APHIS-PPQ approved facility must be maintained.

3) The permit holder must keep records of all shipments received and samples processed under this permit. These records must be retained for a period of three (3) years after disposal of the soil, or (3) years after its transfer to another APHIS-PPQ approved facility. If soil is transferred between approved facilities, its identity must be maintained for traceability.

The records must include:

- a. Date of arrival of each shipment.
- b. Origin of the regulated soil.
- c. Total weight of regulated soil in each shipment.
- d. Date and weight of disposed or transferred amounts of regulated soil.
- e. Method of disposal or location where the regulated soil was transferred to.

4) All records retained under this permit must be made available to Federal and State regulators upon

Permit Number P330-21-00056	
<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>  <p>Gibbs Smith</p>	<p>DATE</p> <p>03/16/2021</p>


WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C s 1001)

request.

END OF PERMIT CONDITIONS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15


Permit Number P930-21-00056

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
	
Gibbs Smith	03/16/2021

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control numbers for this information collection are 0579-0054, 0088, 0129, 0198, 0257, 0310, 0317, 0322, 0337, 0346, 0363, and 0368. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0054/0088/0129/
0198/0257/0310/0317/
0322/0337/0346/0363/
0368

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE		COMPLIANCE AGREEMENT
1. NAME AND MAILING ADDRESS OF PERSON OR FIRM Stephanie G Wilson Eurofins/TestAmerica 3355 McLemore Dr. Pensacola, FL 32514 850-474-1001 Ext. 6240 Stephanie.Wilson@eurofinset.com Alt Phone: 850-712-0954		2. LOCATION Same Alt Facility Contact: Daniel Waite 850-471-6214 Daniel.Waite@TestAmericainc.com
3. REGULATED ARTICLE(S) Non-sterilized Foreign soil; or Foreign and Regulated Domestic soil; or Domestic soil (HI and/or U.S. territories) - ANALYSIS		
4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS 7 CFR 330, 7 CFR 318.60, and 7 CFR 301		
5. I/WE AGREE TO THE FOLLOWING: I. Transfer and Noncompliance A. This agreement may be immediately cancelled or revoked for noncompliance. B. This compliance agreement is non-transferable. C. Any person who knowingly violates the Plant Protection Act (PPA) (7 U.S.C. 7701 et seq.) and/or the Animal Health Protection Act (AHPA) (7 U.S.C. 8301 et. seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater. II. Procedures, protocols, and limitations established in 'General Stipulations' (attached).		
6. SIGNATURE 	7. TITLE Environmental Health and Safety Coordinator	8. DATE SIGNED 03/31/2021
PRINTED NAME Stephanie G Wilson		9. AGREEMENT NO. 03302021GNVSoil
The affixing of the signatures below will validate this agreement which shall remain in effect until cancelled, but may be revised as necessary or revoked for noncompliance.		10. DATE OF AGREEMENT 03/31/2021
11. PPQ/CBP OFFICIAL (NAME AND TITLE) Michael Mulligan SPHD Operations Director		12. ADDRESS USDA APHIS PPQ 8100 NW 15 th Pl Gainesville FL, 32606
13. SIGNATURE		16. ADDRESS FDACS DPI 1911 NW 34 th St Gainesville, FL 326080
14. U.S. GOVERNMENT/STATE AGENCY OFFICIAL (NAME AND TITLE) Nicole Casuso Containment Officer		
16. SIGNATURE		

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS

Compliance Agreement General Stipulations

This Compliance Agreement (CA) supplements the PPQ 330 Soil Permit; and Stephanie G Wilson (hereinafter referred to as Permittee), must meet all the terms and conditions as stated on the CA and Permit documents. Although the Permittee is signing the Compliance Agreement today, authorization to receive foreign soil is not granted until an official PPQ 330 soil permit from the USDA-APHIS-PPQ, Permit Services, Riverdale, Maryland, is issued to Permittee. By signing this compliance agreement you agree to adhere to the conditions hereby stipulated to receive regulated soil.

Authorization:

This Compliance Agreement authorizes Permittee of Eurofins/TestAmerica, 3355 McLemore Dr., Pensacola, FL 32514, to receive untreated regulated DOMESTIC soil for chemical or physical analysis.

NOTE: Neither this CA nor a PPQ 330 permit authorizes receipt of untreated regulated soil that has been imported and/or moved domestically across state lines for the purpose of isolation of a living organism, or for extracting and concentrating organisms from the soil. Further it is not authorized for use in field research or release into the environment before treatment. Authorization to receive soil for biological purposes requires a separate PPQ 526 permit (application can be submitted via ePermits and your local USDA-APHIS-PPQ office can provide assistance and direction regarding the application process).

Also, neither this CA nor a PPQ 330 permit authorizes receipt of untreated regulated soil that has moved from areas under domestic quarantine for Pale Cyst Nematode, Fruit Flies, or Giant African Snail. Movement of soil from these quarantined areas requires a USDA certificate or limited permit. Contact a PPQ office in the originating state for information on obtaining a USDA certificate or limited permit.

Standard Conditions:

1. This compliance agreement, 03302021GNVSoil, is valid for 3 years from the date indicated in Box 10. of the Compliance Agreement (PPQ Form 519).
2. Activation of this CA requires the signature of Permittee. However, authorization to receive regulated soil is not granted until: notification is received that the State Plant Regulatory Official or designee from the Florida Department of Agriculture and Consumer Services, Division of Plant Industry (FDACS-DPI) and the USDA-APHIS-PPQ State Plant Health Director (SPHD) or designee have approved and signed the CA.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

3. Compliance Agreements are non-transferable. Permittee must maintain an official permanent work assignment at the address identified on this CA. If Permittee ceases assignment/affiliation at the address identified on this CA, then the local PPQ office must be notified immediately (that is, within one business day) by either (a) Email: michael.j.mulligan@usda.gov (b) Fax: 352-313-3041 (c) Mail: 8100 NW 15th Pl, Gainesville, FL 32606. Permittee must also contact the USDA-APHIS-PPQ permitting office at 1-866-524-5421. Should Permittee depart from the organization/facility, Permittee will either (a) request cancellation of both the CA and the permit, and comply with all permit-specific termination conditions, (b) apply for and receive a permit to move the soil to a new facility, or (c) relinquish control of the regulated soil to a qualified individual who obtained a permit and CA for the continued use of this regulated soil prior to this permit holder's departure. Go to the Permits website at: (http://www.aphis.usda.gov/plant_health/permits/index.shtml) to apply for an ePermits account to initiate the process. Your local USDA-APHIS-PPQ office can provide direction.
4. If the regulated soil is to be used by other persons within the same organization, those persons must be under the Permittee's supervision and have received the training specified in #2 below under "Standard Operating Procedure." Otherwise, they must apply for their own permit. Notification to this office may help facilitate such circumstance(s).
5. Transfers of untreated regulated soil require prior written authorization from PPQ. This approval comes from the PPQ FL office of the State Plant Health Director (SPHD). Such transfer must be done at a facility that is inspected and authorized by USDA-APHIS-PPQ.
6. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated soil authorized under this compliance agreement/permit.
7. Prior to preparing soil for shipment, Permittee must inform shippers to address the soil shipment exactly as it is written on the soil permit and/or Compliance Agreement and supply a copy of the soil permit or CA to be included with the shipment.
8. All shipments of regulated soil must be shipped directly to Permittee at Eurofins/TestAmerica, 3355 McLemore Dr., Pensacola, FL 32514. All shipments of regulated domestic soil must be shipped by bonded carrier to Permittee at Eurofins/TestAmerica, 3355 McLemore Dr., Pensacola, FL 32514.
9. For all shipments/transfers, the integrity of the sample identification must be preserved from the shipper's inventory records to the recipient. Shipper and recipient must maintain records that provide a traceable link with the shipper's sample identification system in order to preserve the integrity of the sample identification from the shipper to eventual sample destruction.

For example, if the shipper transfers a sample designated ABC and the recipient logs it in to his/her inventory system as sample 123, the recipient must maintain and provide to the shipper a record that cross references the sample identifications. An inspector must be able to review the recipient's records and be able to trace them back to the shipper's sample numbers. If the recipient ultimately transfers the regulated material to an alternate USDA-APHIS approved

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

facility, the integrity of the sample identification must be maintained throughout the transfer process and any subsequent transfers.

Records for each shipment should include the weight, general composition, shipper, shipment origin; and final disposition. Upon request, records of all untreated regulated soil shipments (soil received, soil disposed, and soil transferred) must be available to USDA-APHIS-PPQ and/or FDACS-DPI.

Safeguarding Conditions:

1. Soil shall be shipped in a securely closed, watertight container (primary container) which shall be enclosed in a second, durable watertight container (secondary container). Sufficient cushioning material should be included in the secondary container to prevent shifting of the primary container(s) in transit and to assist in maintaining the crush resistant properties of the container. The holder of this compliance agreement is responsible for communicating these requirements to the individual(s) shipping samples to the lab.
2. All regulated soil must be safeguarded through all storage/processing/sterilization procedures in the authorized facility (and during the transfer from processing point to a detached room for sterilization if this method is used) until sterilized by one of the treatment methods specified (See #5 below). The same applies if the soil is to be transferred to another facility that is inspected and authorized by USDA-APHIS to receive soil.
3. Upon arrival at the authorized facility, the regulated soil must be stored in two levels of secured containment until transferred or sterilized. As long as regulated soil is present, the containment and all other affected areas of the facility must be restricted to access by authorized personnel only. All containers and storage areas will be labeled: "USDA Regulated Soil". The secured containment area must be used to store only regulated material or, if the area also houses unregulated material, the regulated material must be clearly segregated from the unregulated material as well as being appropriately labeled.
4. Shipping containers and other materials associated with the shipment must be decontaminated by one of the approved methods (see #7 below) or sterilized by one of the approved treatment methods for soil (see #5 below).
5. The regulated soil and any soil residues that result from contact with the regulated soil must be treated by dry-heat, autoclave, hydroclave, incineration, or another procedure approved by the PPQ Deputy Administrator or the PPQ Pest Permit Unit prior to disposal in municipal waste.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

A. Dry Heat Treatment: use one of the following schedules:

- 110-120.5 degrees C (230-249 F) for 16 hours
- 121-154 degrees C (250-309 F) for 2 hours
- 154.4-192.5 degrees C (310-379 F) for 30 minutes
- 193-220 degrees C (380-429 F) for 4 minutes
- 221-232 degrees C (430-450 F) for 2 minutes

Soil must be spread evenly throughout the treatment chamber, and the soil depth cannot exceed 6 inches. The exposure period does not begin until the entire mass reaches treatment temperature, as verified by a suitable temperature probe or currently calibrated thermometer.

B. Autoclave soil and other material using the following conditions:

- i. Soil must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes at 15 psi.
- ii. Autoclave tape or other indicators must be placed on each load prior to treatment. The autoclave tape must be checked to verify color change before disposal.
- iii. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
- iv. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, the user must contact the person responsible for maintaining the unit to initiate repairs. Waste can also be transferred for treatment with a functional autoclave at another facility that is approved by USDA-APHIS, in accordance with #5 under "Standard Conditions" above. Contact your local PPQ office.
- v. The autoclave must be calibrated annually as per the manufacturer's instruction and a written record must be maintained.
- vi. Every 3 months, you must use a commercially available test indicator kit that uses bacterial spores (e.g. Geobacillus stearothermophilus species) that are rendered unviable at 121 degrees Celsius (250 Fahrenheit). Follow the test kit manufacturer's instructions. If any growth is observed, you must have the autoclave serviced and retested.

C. Hydroclave soil and other material using the following conditions:

- i. Soil must be hydroclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

minimum of 30 minutes, or at 132 degrees Centigrade (267 degrees Fahrenheit) for a minimum of 15 minutes.

ii. Hydroclaves vary; therefore, the manufacturer's recommendations for hydroclave usage and maintenance must be followed, and these instructions must be readily available for review by PPQ.

iii. The hydroclave must be calibrated annually according to the manufacturer's instructions and a written record must be maintained.

iv. The hydroclave log must be completed by each user for each hydroclave cycle. All parameters must be noted as listed on the log for each hydroclave load.

v. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature. If the required temperature is not attained, you must contact the person responsible for maintaining the unit to initiate repairs. In the interim, waste must be treated either by an alternate treatment method, or transferred for treatment to another PPQ inspected facility, in accordance with #5 under "Standard Conditions" above.

D. Incineration: With the exception of metal and glass containers, all regulated and associated material must be reduced completely to ash at the end of the incineration cycle.

E. No other sterilization methods are approved without the prior written approval of the USDA-APHIS-PPQ Pest Permit Unit or the Deputy Administrator.

6. Any water residues (effluent) from the processing of soil samples must be treated by an approved sterilization procedure listed in #5 above or boiled dry with any resulting residue sterilized by one of the methods listed in #5 above.

7. Equipment and supplies used to conduct operations or that have contacted the soil must be decontaminated using any of the following methods, either alone or in combination:

- A. Immersed in a minimum concentration of 0.525 percent sodium hypochlorite solution for at least 20 minutes.
- B. Immersed in 70 percent alcohol or ethanol for at least 10 minutes.
- C. Flamed with ethanol.
- D. Treated with quaternary ammonium compounds per manufacturer's specifications.
- E. One of the approved soil sterilization methods (listed in #5 above: autoclave, hydroclave, incineration, and dry heat sterilization).

8. When the laboratory has control over the collection of soil samples, they must inform the collectors that equipment and hand tools used for collecting soil samples in areas subject to Federal and/or State cooperative domestic plant quarantines must be thoroughly cleaned of all soil residues at the collection site.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Continuation of Section 5: General Stipulations

9. In the event Permittee receives regulated domestic soil with a contaminant (e.g. heavy metals like lead, mercury etc.) that prevents the regulated soil from being decontaminated by dry heat, hydroclave or autoclave and requires a disposal site such as an incinerator or landfill (subject to all applicable local, state, and federal regulations) , such site must have a valid USDA-APHIS-PPQ Soil Permit and Compliance Agreement for foreign soil or a valid Compliance Agreement for regulated domestic soil, respectively. Prior written approval from the local USDA-APHIS-PPQ office is required before movement of the soil samples to an approved disposal site.
10. All unconsumed soil, containers and effluent are to be autoclaved, incinerated or properly sterilized by Permittee at the conclusion of the project as approved and prescribed by the CA and permit conditions.
11. Permittee must maintain a valid Compliance Agreement for soil samples to be retained for permanent study or research collections. For continuous possession a soil CA can be renewed by reapplying at least three months before the current permit expires.
12. Exact records must be kept and made available upon each visit that USDA-APHIS-PPQ or FDACS-DPI makes to Eurofins/TestAmerica regarding:
 - A. Date of arrival of each shipment
 - B. Origin of the soil
 - C. Total amount of soil in each shipment
 - D. Date and weight of disposed soil
 - E. For transfers of foreign soil - date, weight, and copies of permit and compliance agreement of other party.
 - F. For transfers of regulated domestic soil - date, weight, and copy of compliance agreement of other party.

Standard Operating Procedure (SOP):

1. Permittee at Eurofins/TestAmerica must prepare a standard operating procedure (SOP) demonstrating compliance with the USDA-APHIS-PPQ regulations in terms of handling, processing, storing, safeguarding, transporting, treating and disposing of regulated domestic soil and/or effluent, used shipping containers, equipment and other contact waste. The SOP must contain instructions regarding the cleanup of potential spillage of regulated soil, the subsequent decontamination of affected surfaces, and the sterilization of glassware and equipment. The SOP must be posted in areas where soil is stored and where soil is processed. The SOP may be required at the time of inspection.
2. Permittee at Eurofins/TestAmerica must present a training program to all employees involved in the process of handling, storing, safeguarding, transporting, and disposing of the regulated soil in accordance with USDA-APHIS-PPQ regulations. Training must include policy/instructions detailed in the stipulations and conditions in your PPQ 330 soil permit, the compliance agreement, and the SOP; each employee must know where the SOP is posted. Training must be completed before employees are permitted access to the regulated soil in order to process, safeguard, treat, or dispose. All employees handling regulated soil must be trained annually. Records of all training

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

administered to employees (name and dates) shall be made available to USDA-APHIS-PPQ or FDACS-DPI Regulatory personnel upon request.

3. Records relating to a sample must be retained and made available for inspection upon request by USDA-APHIS-PPQ and/or the FDACS-DPI for a period of 3 years following the sterilization or transfer to another permitted establishment/individual. Records related to training must be retained for 3 years from the date of the records.

With their signature, Permittee is responsible for compliance with all conditions on the Compliance Agreement. This also includes all personnel he/she directly supervises who may be involved with the regulated domestic and/or foreign soil. In the event Permittee is no longer working in this capacity for Eurofins/TestAmerica, 3355 McLemore Dr., Pensacola, FL 32514, either Permittee or Eurofins/TestAmerica must immediately notify USDA-APHIS-PPQ of this change.

This agreement may be immediately canceled or revoked for noncompliance.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Do not lift using this tag

eurofins

Environment Testing
TestAmerica

Temperature Controlled



IF THE
STOP

IN TRANSIT,
C / 36° TO 47° F)

RT 688
SI 3
1 12:00 A
1931
09.03

TAL-0090(1016)

ORIGIN ID:BLUA
TEST AMERICA
EUROFINS TESTAMERICA W SACRAMENTO
880 RIVERSIDE PARKWAY

SHIP DATE: 02SEP22
ACTWGT: 32.90 LB
CAD: 852262/CAFE3616

WEST SACRAMENTO, CA 95605
UNITED STATES US

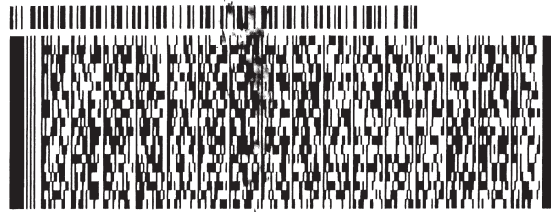
BILL SENDER

TO **SAMPLE RECIEVING**
TEST AMERICA PENSACOLA
3355 MCLEMORE DR

PENSACOLA FL 32514
(850) 474-1001 REF: SEND OUTS
DEPT: SUB WORK

*2.0°C
11:00 AM
MSP*

5761/FCRC/432A



FedEx
Express



J222022032801v

TRK# 4895 5418 7931
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO PNSA

32514
FL-US **BFM**



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91541-1

Login Number: 91541

List Source: Eurofins Sacramento

List Number: 1

Creator: Her, David A

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



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91541-1

Login Number: 91541
List Number: 2
Creator: DeKlerk, Michaela

List Source: Eurofins Pensacola
List Creation: 09/03/22 11:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-91541-2
Client Project/Site: Kirkland AFB

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/11/2022 5:30:56 PM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Job ID: 320-91541-2

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-91541-2

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

General Chemistry

Method SM 2320B: The method requirement for no headspace was not met. The following alkalinity samples in analytical batch 320-623261 were analyzed with headspace in the sample containers: WUAABFFMW01 (320-91541-1). Due to the analyte being requested after the holding time had expired, the headspace requirement was not met. The container used for analysis contained headspace due to a shared container. Data is being reported with this narration.

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Total Alkalinity	130	H	5.0	5.0	mg/L	1	SM 2320B	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	130	H	5.0	5.0	mg/L			10/07/22 14:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91541-2

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 320-623261/7
Matrix: Water
Analysis Batch: 623261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	5.0	mg/L			10/07/22 12:26	1

Lab Sample ID: LCS 320-623261/8
Matrix: Water
Analysis Batch: 623261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	1000	983		mg/L		98	90 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

General Chemistry

Analysis Batch: 623261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91541-1	WUAABFFMW01	Total/NA	Water	SM 2320B	
MB 320-623261/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 320-623261/8	Lab Control Sample	Total/NA	Water	SM 2320B	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Client Sample ID: WUAABFFMW01

Lab Sample ID: 320-91541-1

Date Collected: 08/29/22 10:25

Matrix: Water

Date Received: 08/31/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	623261	10/07/22 14:33	DAN	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Method	Method Description	Protocol	Laboratory
SM 2320B	Alkalinity	SM	EET SAC

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91541-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91541-1	WUAABFFMW01	Water	08/29/22 10:25	08/31/22 09:10

1

2

3

4

5

6

7

8

9

10

11

12

13

14



CHAIN OF CUSTODY RECORD

PAGE: **1** OF: **1**

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975
 FAX: 505-345-4107
 Website: www.hallenvironmental.com

SUB CONTRACTOR		COMPANY		PHONE	FAX	
Eurofins Sacramento		Eurofins Sacramento		(916) 373-5600		
ADDRESS		ACCOUNT #		EMAIL		
880 Riverside Parkway						
CITY, STATE, ZIP		CLIENT SAMPLE ID		ANALYTICAL COMMENTS		
West Sacramento, CA 95605						
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	CONTAINERS
1	2208H42-001A	WUAABFFMW01	VOAHCL	Groundw	8/29/2022 10 25 00 AM	3 8260
2	2208H42-001B	WUAABFFMW01	VOANA2S20	Groundw	8/29/2022 10 25 00 AM	2 EDB <i>by 504.1</i>
3	2208H42-001C	WUAABFFMW01	1LAMGU	Groundw	8/29/2022 10 25 00 AM	1 8270
4	2208H42-001D	WUAABFFMW01	500ML COMBO	Groundw	8/29/2022 10 25 00 AM	2 Br, Cl, SO4, NO2 by 300.0 NO2+NO3 by 353.2
5	2208H42-001E	WUAABFFMW01	250HDPEHN O3	Groundw	8/29/2022 10 25 00 AM	1 Total Metals by 6010 As, Pb, Ca, Mg, K, Na
6	2208H42-001F	WUAABFFMW01	125HDPHNO	Groundw	8/29/2022 10 25 00 AM	1 Dissolved Metals by 6010 Fe, Mn
7	2208H42-002A	Trip Blank	VOAHCL	Trip		2 8260
8	2208H42-002B	Trip Blank	VOANA2S20	Trip		1 EDB <i>by 504.1</i>



320-91541 Chain of Custody

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

1-30

Requested by: <i>See</i>	Date: 8/30/2022	Time: 9:27 AM	Received By: <i>[Signature]</i>	Date: 8/30	Time: 4:12
Retrieved by:	Date:	Time:	Received By:	Date:	Time:
Retrieved by:	Date:	Time:	Received By:	Date:	Time:

Standard RI SH

1st BD 2nd BD 3rd BD

REPORT (REQUIRED) DESIRED
 HARD COPY (REQUIRED) FAX EMAIL ONLINE

FOR LAB USE ONLY
 Temp. of samples: _____ Analytical method: _____
 Comments: _____



Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91541-2

Login Number: 91541

List Source: Eurofins Sacramento

List Number: 1

Creator: Her, David A

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

Sample Log-In Check List

Client Name: **Intera, Inc.** Work Order Number: **2208H42** RcptNo: **1**

Received By: **Kassandra Payan** 8/29/2022 2:11:00 PM *KP*
 Completed By: **Sean Livingston** 8/29/2022 3:40:10 PM *Se-L*
 Reviewed By: *SR 8/29/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
 (<2 or >12 unless noted)
 Adjusted? NO
 Checked by: SR 8/29/22

Special Handling (if applicable)

15. 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"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good				

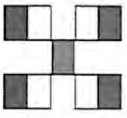
Chain-of-Custody Record

Client: INTERA
 Mailing Address: 2440 Louisiana Blvd
Alb, NM 87110 Suite 700
 Phone #: 505-246-1600
 email or Fax#: jtracy@intera.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type) Exc

Turn-Around Time:
 Standard Rush
 Project Name: Data Gap Well
 Project #: ABWNA-0009-KAFB
 Project Manager: Joe Tracy
 Sampler: BA/LP
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CP): 4.3 to 1.44 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/29/12	1025	GW	WWTABFFMW01	3 volts 2 volts 1 L Amber 250 mL plus 125 mL plus 125 mL plus 500 mL plus	HCL N/A Thiou sulfate None HNO3 HNO3 (f/Hand) H2SO4 None	2208 H42 001
8/29/12	1025	AQ	Trip Blank	3 volts	HCL (2) N/A Thiou sulfate	002

Date: 8/29/12 Time: 1410
 Relinquished by: [Signature]
 Date: 8/29/12 Time: 1411
 Received by: [Signature] Via: ODO
 Received by: [Signature] Via: ODO



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Method 3532

Analysis Request

BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Anions Br, Cl, SO4, NO2, Nitrate/Nitro	Alkalinity 5M 2320b	Total Metals 6010 (As, Pb, Cu, Mg, K, Mn)	Dissolved 6010 (Fe, Mn)
			X				X	X	X	X	X	X	X

Remarks:
 Please overnight to Eurofins (Sacramento, CA)
 (EAP Cert No. 2897) Total Metals = As, Pb, Cu, Ni, Vg, K & Na

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 12, 2022

Joseph Tracy

Intera, Inc.

2440 Louisiana Blvd NE Suite 700

Albuquerque, NM 87110

TEL: (505) 246-1600

FAX: (505) 246-2600

RE: Data Gap Well

OrderNo.: 2209002

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/31/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-91650-1
Client Project/Site: Kirkland AFB

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/3/2022 6:40:44 PM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	34
Lab Chronicle	36
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Job ID: 320-91650-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-91650-1

Comments

No additional comments.

Receipt

The samples were received on 9/2/2022 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

Receipt Exceptions

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time. Sample#1 was collected on 8/31/22, with short hold time expiring on the day of receipt 9/2/22.: WUABFFMW01 (320-91650-1).

Sample#1 all plastic container received were partly frozen, while glass containers were not frozen.

WUABFFMW01 (320-91650-1)

GC/MS VOA

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 and TBA-d9 for the following samples in analytical batch 320-615879 was outside acceptance criteria: (CCV 320-615879/4), (LCS 320-615879/5), (LCSD 320-615879/6) and (MB 320-615879/12). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 for the following samples in analytical batch 320-615879 was outside acceptance criteria: Trip Blank (320-91650-2) and EQP-01 (320-91650-3). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-615879.

Method 8260B: The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample container(s): Trip Blank (320-91650-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: Internal standard (ISTD) response for Dioxane-d8 for the following samples in analytical batch 320-616235 was outside acceptance criteria: WUABFFMW01 (320-91650-1), (LCS 320-616235/5), (LCSD 320-616235/6) and (MB 320-616235/11). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260B: The initial calibration verification (ICV) result for batch 320-616235 was above the upper control limit for Dichlorodifluoromethane. Sample results were non-detects, and have been reported as qualified data.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 320-616235.

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

GC/MS Semi VOA

Method 8270C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-614885 and analytical batch 320-619679 recovered outside control limits for Benzoic acid. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270C: Surrogate recovery for the following samples was outside of acceptance limits: WUABFFMW01 (320-91650-1), (LCS 320-614885/2-A), (LCSD 320-614885/3-A) and (MB 320-614885/1-A). There was insufficient sample to perform a re-extraction; therefore,

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Job ID: 320-91650-1 (Continued)

Laboratory: Eurofins Sacramento (Continued)

the data have been reported.

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

GC Semi VOA

Method 504.1: The continuing calibration verification (CCV) associated with batch 400-591456 recovered above the upper control limit for Ethylene Dibromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 504.1, 8011: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-591436.

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

Metals

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

General Chemistry

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 320-614133 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300.0: The following sample in analytical batch 320-614134 was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: WUABFFMW01 (320-91650-1).

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with method 8270C aqueous in preparation batch 320-614885.

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

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Toluene	0.099		0.50	0.095	ug/L	1	8260B	Total/NA
Bromide	0.18		0.50	0.088	mg/L	1	300.0	Total/NA
Chloride	9.7		1.0	0.37	mg/L	1	300.0	Total/NA
Sulfate	29		1.0	0.36	mg/L	1	300.0	Total/NA
Calcium	29		0.50	0.050	mg/L	1	6010B	Total/NA
Magnesium	3.9		0.50	0.040	mg/L	1	6010B	Total/NA
Potassium	2.7		1.0	0.093	mg/L	1	6010B	Total/NA
Sodium	28		1.0	0.25	mg/L	1	6010B	Total/NA
Iron	0.12		0.10	0.020	mg/L	1	6010B	Dissolved
Manganese	0.43		0.0050	0.0025	mg/L	1	6010B	Dissolved

Client Sample ID: Trip Blank

Lab Sample ID: 320-91650-2

No Detections.

Client Sample ID: EQP-01

Lab Sample ID: 320-91650-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Bromodichloromethane	0.78		0.50	0.14	ug/L	1	8260B	Total/NA
Chloroform	3.7		1.0	0.12	ug/L	1	8260B	Total/NA
Dibromochloromethane	0.72		0.50	0.16	ug/L	1	8260B	Total/NA
1,2-Dichloroethane	0.74		0.50	0.14	ug/L	1	8260B	Total/NA
1,2,4-Trichlorobenzene	0.48		1.0	0.25	ug/L	1	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/13/22 15:29	1
Benzene	ND		0.50	0.080	ug/L			09/13/22 15:29	1
Bromobenzene	ND		1.0	0.091	ug/L			09/13/22 15:29	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/13/22 15:29	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/13/22 15:29	1
Bromoform	ND		1.0	0.19	ug/L			09/13/22 15:29	1
Bromomethane	ND		1.0	0.21	ug/L			09/13/22 15:29	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/13/22 15:29	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/13/22 15:29	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/13/22 15:29	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/13/22 15:29	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/13/22 15:29	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/13/22 15:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/13/22 15:29	1
Chloroethane	ND		1.0	0.24	ug/L			09/13/22 15:29	1
Chloroform	ND		1.0	0.12	ug/L			09/13/22 15:29	1
Chloromethane	ND		1.0	0.26	ug/L			09/13/22 15:29	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/13/22 15:29	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/13/22 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/13/22 15:29	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/13/22 15:29	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/13/22 15:29	1
Dibromomethane	ND		0.50	0.17	ug/L			09/13/22 15:29	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/13/22 15:29	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/13/22 15:29	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/13/22 15:29	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/13/22 15:29	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/13/22 15:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/13/22 15:29	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/13/22 15:29	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/13/22 15:29	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/13/22 15:29	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/13/22 15:29	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/13/22 15:29	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/13/22 15:29	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/13/22 15:29	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/13/22 15:29	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/13/22 15:29	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/13/22 15:29	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/13/22 15:29	1
2-Hexanone	ND		2.0	0.17	ug/L			09/13/22 15:29	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/13/22 15:29	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/13/22 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/13/22 15:29	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/13/22 15:29	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/13/22 15:29	1
Naphthalene	ND		1.0	0.48	ug/L			09/13/22 15:29	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/13/22 15:29	1
Styrene	ND		0.50	0.13	ug/L			09/13/22 15:29	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/13/22 15:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/13/22 15:29	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/13/22 15:29	1
Toluene	0.099	J	0.50	0.095	ug/L			09/13/22 15:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/13/22 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/13/22 15:29	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/13/22 15:29	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/13/22 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/13/22 15:29	1
Trichloroethene	ND		0.50	0.10	ug/L			09/13/22 15:29	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/13/22 15:29	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/13/22 15:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/13/22 15:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/13/22 15:29	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/13/22 15:29	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/13/22 15:29	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/13/22 15:29	1
o-Xylene	ND		0.50	0.14	ug/L			09/13/22 15:29	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/13/22 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		69 - 129		09/13/22 15:29	1
1,2-Dichloroethane-d4 (Surr)	120		66 - 126		09/13/22 15:29	1
Toluene-d8 (Surr)	98		67 - 127		09/13/22 15:29	1
Dibromofluoromethane (Surr)	106		68 - 128		09/13/22 15:29	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Acenaphthylene	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Anthracene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzo[a]anthracene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzo[k]fluoranthene	ND		10	0.96	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzo[g,h,i]perylene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzo[a]pyrene	ND		10	0.68	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzoic acid	ND	*+	50	20	ug/L		09/07/22 12:18	09/23/22 20:18	1
Benzyl alcohol	ND		10	2.6	ug/L		09/07/22 12:18	09/23/22 20:18	1
Bis(2-chloroethoxy)methane	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
bis (2-chloroisopropyl) ether	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 20:18	1
Bis(2-ethylhexyl) phthalate	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Bromophenyl phenyl ether	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Butyl benzyl phthalate	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Chloroaniline	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Chloro-3-methylphenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Chloronaphthalene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Chlorophenol	ND		10	1.6	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Chlorophenyl phenyl ether	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Chrysene	ND		10	0.61	ug/L		09/07/22 12:18	09/23/22 20:18	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Dibenzofuran	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Di-n-butyl phthalate	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
1,2-Dichlorobenzene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
1,3-Dichlorobenzene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
1,4-Dichlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
3,3'-Dichlorobenzidine	ND		50	0.96	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4-Dichlorophenol	ND		10	2.6	ug/L		09/07/22 12:18	09/23/22 20:18	1
Diethyl phthalate	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4-Dimethylphenol	ND		10	2.2	ug/L		09/07/22 12:18	09/23/22 20:18	1
Dimethyl phthalate	ND		10	0.88	ug/L		09/07/22 12:18	09/23/22 20:18	1
4,6-Dinitro-2-methylphenol	ND		50	2.2	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4-Dinitrophenol	ND		50	20	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Di-n-octyl phthalate	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
Fluoranthene	ND		10	0.65	ug/L		09/07/22 12:18	09/23/22 20:18	1
Fluorene	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 20:18	1
Hexachlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Hexachlorobutadiene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 20:18	1
Hexachlorocyclopentadiene	ND		50	5.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Hexachloroethane	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Indeno[1,2,3-cd]pyrene	ND		10	3.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Isophorone	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Methylnaphthalene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Methylphenol	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 20:18	1
3-Methylphenol & 4-Methylphenol	ND		20	1.2	ug/L		09/07/22 12:18	09/23/22 20:18	1
Naphthalene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Nitroaniline	ND		50	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
3-Nitroaniline	ND		50	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Nitroaniline	ND		50	1.5	ug/L		09/07/22 12:18	09/23/22 20:18	1
Nitrobenzene	ND		10	1.6	ug/L		09/07/22 12:18	09/23/22 20:18	1
2-Nitrophenol	ND		10	1.9	ug/L		09/07/22 12:18	09/23/22 20:18	1
4-Nitrophenol	ND		50	6.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
N-Nitrosodiphenylamine	ND		10	0.54	ug/L		09/07/22 12:18	09/23/22 20:18	1
N-Nitrosodi-n-propylamine	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Pentachlorophenol	ND		50	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Phenanthrene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
Phenol	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 20:18	1
Pyrene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
Pyridine	ND		20	0.80	ug/L		09/07/22 12:18	09/23/22 20:18	1
1,2,4-Trichlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4,5-Trichlorophenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1
2,4,6-Trichlorophenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	38	S1-	55 - 140	09/07/22 12:18	09/23/22 20:18	1
2-Fluorobiphenyl (Surr)	23	S1-	57 - 98	09/07/22 12:18	09/23/22 20:18	1
2-Fluorophenol (Surr)	25	S1-	47 - 87	09/07/22 12:18	09/23/22 20:18	1
Nitrobenzene-d5 (Surr)	27	S1-	64 - 104	09/07/22 12:18	09/23/22 20:18	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	19	S1-	29 - 69	09/07/22 12:18	09/23/22 20:18	1
Terphenyl-d14 (Surr)	31	S1-	70 - 118	09/07/22 12:18	09/23/22 20:18	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		56 - 150	09/06/22 10:35	09/06/22 15:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.18	J	0.50	0.088	mg/L			09/02/22 14:25	1
Nitrate as N	ND	H	0.25	0.10	mg/L			09/02/22 14:25	1
Chloride	9.7		1.0	0.37	mg/L			09/02/22 14:25	1
Nitrite as N	ND	H	0.25	0.050	mg/L			09/02/22 14:25	1
Sulfate	29		1.0	0.36	mg/L			09/02/22 14:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.012	mg/L		09/07/22 10:50	09/08/22 17:08	1
Calcium	29		0.50	0.050	mg/L		09/07/22 10:50	09/08/22 17:08	1
Lead	ND		0.0050	0.0025	mg/L		09/07/22 10:50	09/08/22 17:08	1
Magnesium	3.9		0.50	0.040	mg/L		09/07/22 10:50	09/08/22 17:08	1
Potassium	2.7		1.0	0.093	mg/L		09/07/22 10:50	09/08/22 17:08	1
Sodium	28		1.0	0.25	mg/L		09/07/22 10:50	09/08/22 17:08	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.10	0.020	mg/L		09/27/22 16:55	09/29/22 11:16	1
Manganese	0.43		0.0050	0.0025	mg/L		09/27/22 16:55	09/30/22 16:24	1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91650-2

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/12/22 15:19	1
Benzene	ND		0.50	0.080	ug/L			09/12/22 15:19	1
Bromobenzene	ND		1.0	0.091	ug/L			09/12/22 15:19	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/12/22 15:19	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/12/22 15:19	1
Bromoform	ND		1.0	0.19	ug/L			09/12/22 15:19	1
Bromomethane	ND		1.0	0.21	ug/L			09/12/22 15:19	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/12/22 15:19	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/12/22 15:19	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/12/22 15:19	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/12/22 15:19	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/12/22 15:19	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/12/22 15:19	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91650-2

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.070	ug/L			09/12/22 15:19	1
Chloroethane	ND		1.0	0.24	ug/L			09/12/22 15:19	1
Chloroform	ND		1.0	0.12	ug/L			09/12/22 15:19	1
Chloromethane	ND		1.0	0.26	ug/L			09/12/22 15:19	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/12/22 15:19	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/12/22 15:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/12/22 15:19	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/12/22 15:19	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/12/22 15:19	1
Dibromomethane	ND		0.50	0.17	ug/L			09/12/22 15:19	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/12/22 15:19	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/12/22 15:19	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/12/22 15:19	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/12/22 15:19	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/12/22 15:19	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/12/22 15:19	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/12/22 15:19	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/12/22 15:19	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/12/22 15:19	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/12/22 15:19	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/12/22 15:19	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/12/22 15:19	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/12/22 15:19	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/12/22 15:19	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/12/22 15:19	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/12/22 15:19	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/12/22 15:19	1
2-Hexanone	ND		2.0	0.17	ug/L			09/12/22 15:19	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/12/22 15:19	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/12/22 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/12/22 15:19	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/12/22 15:19	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/12/22 15:19	1
Naphthalene	ND		1.0	0.48	ug/L			09/12/22 15:19	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/12/22 15:19	1
Styrene	ND		0.50	0.13	ug/L			09/12/22 15:19	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/12/22 15:19	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/12/22 15:19	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/12/22 15:19	1
Toluene	ND		0.50	0.095	ug/L			09/12/22 15:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/12/22 15:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/12/22 15:19	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/12/22 15:19	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/12/22 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/12/22 15:19	1
Trichloroethene	ND		0.50	0.10	ug/L			09/12/22 15:19	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/12/22 15:19	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/12/22 15:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/12/22 15:19	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: Trip Blank

Lab Sample ID: 320-91650-2

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/12/22 15:19	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/12/22 15:19	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/12/22 15:19	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/12/22 15:19	1
o-Xylene	ND		0.50	0.14	ug/L			09/12/22 15:19	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/12/22 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		69 - 129		09/12/22 15:19	1
1,2-Dichloroethane-d4 (Surr)	110		66 - 126		09/12/22 15:19	1
Toluene-d8 (Surr)	100		67 - 127		09/12/22 15:19	1
Dibromofluoromethane (Surr)	102		68 - 128		09/12/22 15:19	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	115		56 - 150	09/06/22 10:35	09/06/22 15:56	1

Client Sample ID: EQP-01

Lab Sample ID: 320-91650-3

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/12/22 19:09	1
Benzene	ND		0.50	0.080	ug/L			09/12/22 19:09	1
Bromobenzene	ND		1.0	0.091	ug/L			09/12/22 19:09	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/12/22 19:09	1
Bromodichloromethane	0.78		0.50	0.14	ug/L			09/12/22 19:09	1
Bromoform	ND		1.0	0.19	ug/L			09/12/22 19:09	1
Bromomethane	ND		1.0	0.21	ug/L			09/12/22 19:09	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/12/22 19:09	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/12/22 19:09	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/12/22 19:09	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/12/22 19:09	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/12/22 19:09	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/12/22 19:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/12/22 19:09	1
Chloroethane	ND		1.0	0.24	ug/L			09/12/22 19:09	1
Chloroform	3.7		1.0	0.12	ug/L			09/12/22 19:09	1
Chloromethane	ND		1.0	0.26	ug/L			09/12/22 19:09	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/12/22 19:09	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/12/22 19:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/12/22 19:09	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/12/22 19:09	1
Dibromochloromethane	0.72		0.50	0.16	ug/L			09/12/22 19:09	1
Dibromomethane	ND		0.50	0.17	ug/L			09/12/22 19:09	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/12/22 19:09	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/12/22 19:09	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: EQP-01

Lab Sample ID: 320-91650-3

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/12/22 19:09	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/12/22 19:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/12/22 19:09	1
1,2-Dichloroethane	0.74		0.50	0.14	ug/L			09/12/22 19:09	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/12/22 19:09	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/12/22 19:09	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/12/22 19:09	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/12/22 19:09	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/12/22 19:09	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/12/22 19:09	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/12/22 19:09	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/12/22 19:09	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/12/22 19:09	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/12/22 19:09	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/12/22 19:09	1
2-Hexanone	ND		2.0	0.17	ug/L			09/12/22 19:09	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/12/22 19:09	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/12/22 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/12/22 19:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/12/22 19:09	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/12/22 19:09	1
Naphthalene	ND		1.0	0.48	ug/L			09/12/22 19:09	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/12/22 19:09	1
Styrene	ND		0.50	0.13	ug/L			09/12/22 19:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/12/22 19:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/12/22 19:09	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/12/22 19:09	1
Toluene	ND		0.50	0.095	ug/L			09/12/22 19:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/12/22 19:09	1
1,2,4-Trichlorobenzene	0.48 J		1.0	0.25	ug/L			09/12/22 19:09	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/12/22 19:09	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/12/22 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/12/22 19:09	1
Trichloroethene	ND		0.50	0.10	ug/L			09/12/22 19:09	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/12/22 19:09	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/12/22 19:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/12/22 19:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/12/22 19:09	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/12/22 19:09	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/12/22 19:09	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/12/22 19:09	1
o-Xylene	ND		0.50	0.14	ug/L			09/12/22 19:09	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/12/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		69 - 129		09/12/22 19:09	1
1,2-Dichloroethane-d4 (Surr)	115		66 - 126		09/12/22 19:09	1
Toluene-d8 (Surr)	98		67 - 127		09/12/22 19:09	1
Dibromofluoromethane (Surr)	106		68 - 128		09/12/22 19:09	1

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: EQP-01
Date Collected: 08/31/22 16:00
Date Received: 09/02/22 12:00

Lab Sample ID: 320-91650-3
Matrix: Water

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		56 - 150				09/06/22 10:35	09/06/22 16:16	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (69-129)	DCA (66-126)	TOL (67-127)	DBFM (68-128)
320-91650-1	WUABFFMW01	99	120	98	106
320-91650-2	Trip Blank	102	110	100	102
320-91650-3	EQP-01	99	115	98	106
LCS 320-615879/5	Lab Control Sample	99	101	100	100
LCS 320-616235/5	Lab Control Sample	98	114	102	106
LCSD 320-615879/6	Lab Control Sample Dup	101	98	101	101
LCSD 320-616235/6	Lab Control Sample Dup	98	114	101	104
MB 320-615879/12	Method Blank	100	109	100	104
MB 320-616235/11	Method Blank	97	117	99	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (55-140)	FBP (57-98)	2FP (47-87)	NBZ (64-104)	PHL (29-69)	TPHL (70-118)
320-91650-1	WUABFFMW01	38 S1-	23 S1-	25 S1-	27 S1-	19 S1-	31 S1-
LCS 320-614885/2-A	Lab Control Sample	40 S1-	35 S1-	31 S1-	37 S1-	22 S1-	36 S1-
LCSD 320-614885/3-A	Lab Control Sample Dup	42 S1-	35 S1-	30 S1-	44 S1-	23 S1-	35 S1-
MB 320-614885/1-A	Method Blank	35 S1-	32 S1-	28 S1-	32 S1-	19 S1-	34 S1-

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (56-150)
320-91650-1	WUABFFMW01	100
320-91650-2	Trip Blank	115
320-91650-3	EQP-01	93
LCS 400-591436/2-A	Lab Control Sample	61 p
LCSD 400-591436/3-A	Lab Control Sample Dup	60
MB 400-591436/1-A	Method Blank	78

Surrogate Legend

BFB1 = 4-Bromofluorobenzene

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-615879/12
 Matrix: Water
 Analysis Batch: 615879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.8	ug/L			09/12/22 13:24	1
Benzene	ND		0.50	0.080	ug/L			09/12/22 13:24	1
Bromobenzene	ND		1.0	0.091	ug/L			09/12/22 13:24	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/12/22 13:24	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/12/22 13:24	1
Bromoform	ND		1.0	0.19	ug/L			09/12/22 13:24	1
Bromomethane	ND		1.0	0.21	ug/L			09/12/22 13:24	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/12/22 13:24	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/12/22 13:24	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/12/22 13:24	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/12/22 13:24	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/12/22 13:24	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/12/22 13:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/12/22 13:24	1
Chloroethane	ND		1.0	0.24	ug/L			09/12/22 13:24	1
Chloroform	ND		1.0	0.12	ug/L			09/12/22 13:24	1
Chloromethane	ND		1.0	0.26	ug/L			09/12/22 13:24	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/12/22 13:24	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/12/22 13:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/12/22 13:24	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/12/22 13:24	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/12/22 13:24	1
Dibromomethane	ND		0.50	0.17	ug/L			09/12/22 13:24	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/12/22 13:24	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/12/22 13:24	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/12/22 13:24	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/12/22 13:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/12/22 13:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/12/22 13:24	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/12/22 13:24	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/12/22 13:24	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/12/22 13:24	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/12/22 13:24	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/12/22 13:24	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/12/22 13:24	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/12/22 13:24	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/12/22 13:24	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/12/22 13:24	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/12/22 13:24	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/12/22 13:24	1
2-Hexanone	ND		2.0	0.17	ug/L			09/12/22 13:24	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/12/22 13:24	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/12/22 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/12/22 13:24	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/12/22 13:24	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/12/22 13:24	1
Naphthalene	ND		1.0	0.48	ug/L			09/12/22 13:24	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/12/22 13:24	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-615879/12
Matrix: Water
Analysis Batch: 615879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.13	ug/L			09/12/22 13:24	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/12/22 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/12/22 13:24	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/12/22 13:24	1
Toluene	ND		0.50	0.095	ug/L			09/12/22 13:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/12/22 13:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/12/22 13:24	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/12/22 13:24	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/12/22 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/12/22 13:24	1
Trichloroethene	ND		0.50	0.10	ug/L			09/12/22 13:24	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/12/22 13:24	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/12/22 13:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/12/22 13:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/12/22 13:24	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/12/22 13:24	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/12/22 13:24	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/12/22 13:24	1
o-Xylene	ND		0.50	0.14	ug/L			09/12/22 13:24	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/12/22 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		69 - 129		09/12/22 13:24	1
1,2-Dichloroethane-d4 (Surr)	109		66 - 126		09/12/22 13:24	1
Toluene-d8 (Surr)	100		67 - 127		09/12/22 13:24	1
Dibromofluoromethane (Surr)	104		68 - 128		09/12/22 13:24	1

Lab Sample ID: LCS 320-615879/5
Matrix: Water
Analysis Batch: 615879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	39.5		ug/L		79	45 - 151
Benzene	20.0	19.2		ug/L		96	67 - 127
Bromobenzene	20.0	22.1		ug/L		110	68 - 128
Bromochloromethane	20.0	19.3		ug/L		96	69 - 129
Bromodichloromethane	20.0	20.5		ug/L		103	69 - 129
Bromoform	20.0	19.9		ug/L		99	64 - 134
Bromomethane	20.0	21.0		ug/L		105	65 - 125
2-Butanone (MEK)	50.0	43.6		ug/L		87	66 - 126
n-Butylbenzene	20.0	19.8		ug/L		99	70 - 130
sec-Butylbenzene	20.0	21.5		ug/L		108	69 - 129
tert-Butylbenzene	20.0	21.5		ug/L		107	68 - 128
Carbon disulfide	20.0	18.4		ug/L		92	66 - 126
Carbon tetrachloride	20.0	21.3		ug/L		106	71 - 131
Chlorobenzene	20.0	19.7		ug/L		99	66 - 126
Chloroethane	20.0	21.2		ug/L		106	67 - 127
Chloroform	20.0	20.2		ug/L		101	68 - 128

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-615879/5
Matrix: Water
Analysis Batch: 615879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	17.2		ug/L		86	64 - 124
2-Chlorotoluene	20.0	21.6		ug/L		108	66 - 126
4-Chlorotoluene	20.0	21.9		ug/L		110	67 - 127
1,2-Dibromo-3-Chloropropane	20.0	16.4		ug/L		82	58 - 139
Ethylene Dibromide (EDB)	20.0	20.8		ug/L		104	69 - 129
Dibromochloromethane	20.0	21.6		ug/L		108	70 - 130
Dibromomethane	20.0	19.5		ug/L		98	68 - 128
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	67 - 127
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	66 - 126
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	66 - 126
Dichlorodifluoromethane	20.0	17.1		ug/L		86	53 - 122
1,1-Dichloroethane	20.0	18.6		ug/L		93	67 - 127
1,2-Dichloroethane	20.0	20.8		ug/L		104	66 - 126
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	67 - 127
trans-1,2-Dichloroethene	20.0	18.9		ug/L		95	68 - 128
1,1-Dichloroethene	20.0	19.8		ug/L		99	69 - 129
1,2-Dichloropropane	20.0	18.9		ug/L		95	69 - 129
1,3-Dichloropropane	20.0	19.9		ug/L		100	67 - 127
2,2-Dichloropropane	20.0	16.4		ug/L		82	67 - 127
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	19.9		ug/L		100	70 - 130
1,1-Dichloropropene	20.0	20.2		ug/L		101	69 - 129
Ethylbenzene	20.0	20.0		ug/L		100	67 - 127
Hexachlorobutadiene	20.0	19.4		ug/L		97	72 - 134
2-Hexanone	50.0	53.0		ug/L		106	72 - 132
Isopropylbenzene	20.0	19.1		ug/L		96	69 - 129
p-Isopropyltoluene	20.0	21.2		ug/L		106	69 - 129
4-Methyl-2-pentanone (MIBK)	50.0	51.0		ug/L		102	70 - 130
Methyl tert-butyl ether	20.0	18.2		ug/L		91	67 - 127
Methylene Chloride	20.0	18.3		ug/L		92	67 - 127
Naphthalene	20.0	17.5		ug/L		88	60 - 144
N-Propylbenzene	20.0	22.2		ug/L		111	68 - 128
Styrene	20.0	20.1		ug/L		100	69 - 129
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	69 - 129
1,1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	68 - 128
Tetrachloroethene	20.0	21.2		ug/L		106	69 - 129
Toluene	20.0	20.0		ug/L		100	68 - 128
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	58 - 145
1,2,4-Trichlorobenzene	20.0	16.7		ug/L		84	66 - 135
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	69 - 129
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	69 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6		ug/L		103	69 - 129
Trichloroethene	20.0	20.8		ug/L		104	69 - 129
Trichlorofluoromethane	20.0	21.8		ug/L		109	69 - 129
1,2,3-Trichloropropane	20.0	22.4		ug/L		112	68 - 128
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	68 - 128
1,3,5-Trimethylbenzene	20.0	22.2		ug/L		111	68 - 128
Vinyl acetate	20.0	17.1		ug/L		86	62 - 140

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-615879/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 615879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	18.0		ug/L		90	65 - 125
m-Xylene & p-Xylene	20.0	20.1		ug/L		100	67 - 127
o-Xylene	20.0	19.3		ug/L		97	68 - 128
Xylenes, Total	40.0	39.4		ug/L		99	68 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		69 - 129
1,2-Dichloroethane-d4 (Surr)	101		66 - 126
Toluene-d8 (Surr)	100		67 - 127
Dibromofluoromethane (Surr)	100		68 - 128

Lab Sample ID: LCSD 320-615879/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 615879

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	50.0	37.4		ug/L		75	45 - 151	5	49
Benzene	20.0	19.2		ug/L		96	67 - 127	0	21
Bromobenzene	20.0	21.7		ug/L		109	68 - 128	2	17
Bromochloromethane	20.0	19.4		ug/L		97	69 - 129	1	19
Bromodichloromethane	20.0	20.6		ug/L		103	69 - 129	1	20
Bromoform	20.0	19.4		ug/L		97	64 - 134	2	16
Bromomethane	20.0	22.4		ug/L		112	65 - 125	6	40
2-Butanone (MEK)	50.0	42.5		ug/L		85	66 - 126	3	34
n-Butylbenzene	20.0	19.7		ug/L		98	70 - 130	1	25
sec-Butylbenzene	20.0	21.1		ug/L		106	69 - 129	2	19
tert-Butylbenzene	20.0	21.0		ug/L		105	68 - 128	3	19
Carbon disulfide	20.0	18.3		ug/L		92	66 - 126	0	26
Carbon tetrachloride	20.0	21.5		ug/L		108	71 - 131	1	25
Chlorobenzene	20.0	19.7		ug/L		99	66 - 126	0	15
Chloroethane	20.0	22.6		ug/L		113	67 - 127	6	40
Chloroform	20.0	20.6		ug/L		103	68 - 128	2	22
Chloromethane	20.0	18.2		ug/L		91	64 - 124	5	25
2-Chlorotoluene	20.0	21.1		ug/L		106	66 - 126	2	19
4-Chlorotoluene	20.0	21.3		ug/L		106	67 - 127	3	19
1,2-Dibromo-3-Chloropropane	20.0	16.1		ug/L		80	58 - 139	2	33
Ethylene Dibromide (EDB)	20.0	20.7		ug/L		103	69 - 129	1	15
Dibromochloromethane	20.0	21.1		ug/L		105	70 - 130	2	17
Dibromomethane	20.0	19.0		ug/L		95	68 - 128	3	17
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	67 - 127	3	19
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	66 - 126	2	17
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	66 - 126	3	15
Dichlorodifluoromethane	20.0	18.0		ug/L		90	53 - 122	5	51
1,1-Dichloroethane	20.0	18.6		ug/L		93	67 - 127	0	21
1,2-Dichloroethane	20.0	20.6		ug/L		103	66 - 126	1	25
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	67 - 127	3	18
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	68 - 128	3	20
1,1-Dichloroethene	20.0	20.1		ug/L		100	69 - 129	1	22

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-615879/6
Matrix: Water
Analysis Batch: 615879

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	20.0	19.2		ug/L		96	69 - 129	1	27
1,3-Dichloropropane	20.0	19.6		ug/L		98	67 - 127	2	15
2,2-Dichloropropane	20.0	17.9		ug/L		89	67 - 127	8	25
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	70 - 130	2	24
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	70 - 130	2	29
1,1-Dichloropropene	20.0	20.1		ug/L		100	69 - 129	1	20
Ethylbenzene	20.0	20.2		ug/L		101	67 - 127	1	15
Hexachlorobutadiene	20.0	18.5		ug/L		92	72 - 134	5	30
2-Hexanone	50.0	53.2		ug/L		106	72 - 132	0	31
Isopropylbenzene	20.0	19.7		ug/L		98	69 - 129	3	17
p-Isopropyltoluene	20.0	20.7		ug/L		104	69 - 129	2	18
4-Methyl-2-pentanone (MIBK)	50.0	49.4		ug/L		99	70 - 130	3	33
Methyl tert-butyl ether	20.0	18.2		ug/L		91	67 - 127	0	24
Methylene Chloride	20.0	18.5		ug/L		93	67 - 127	1	20
Naphthalene	20.0	17.1		ug/L		85	60 - 144	3	48
N-Propylbenzene	20.0	21.7		ug/L		108	68 - 128	3	26
Styrene	20.0	19.8		ug/L		99	69 - 129	1	15
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	69 - 129	0	23
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		95	68 - 128	6	27
Tetrachloroethene	20.0	21.6		ug/L		108	69 - 129	2	18
Toluene	20.0	20.1		ug/L		100	68 - 128	0	20
1,2,3-Trichlorobenzene	20.0	16.9		ug/L		85	58 - 145	4	45
1,2,4-Trichlorobenzene	20.0	16.9		ug/L		84	66 - 135	1	40
1,1,1-Trichloroethane	20.0	21.4		ug/L		107	69 - 129	3	25
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	69 - 129	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/L		107	69 - 129	4	40
Trichloroethene	20.0	20.7		ug/L		103	69 - 129	1	20
Trichlorofluoromethane	20.0	22.7		ug/L		114	69 - 129	4	41
1,2,3-Trichloropropane	20.0	21.0		ug/L		105	68 - 128	7	22
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		102	68 - 128	4	17
1,3,5-Trimethylbenzene	20.0	21.7		ug/L		109	68 - 128	2	20
Vinyl acetate	20.0	17.3		ug/L		87	62 - 140	1	30
Vinyl chloride	20.0	18.8		ug/L		94	65 - 125	4	33
m-Xylene & p-Xylene	20.0	20.3		ug/L		101	67 - 127	1	15
o-Xylene	20.0	19.5		ug/L		97	68 - 128	1	18
Xylenes, Total	40.0	39.8		ug/L		100	68 - 128	1	16

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		69 - 129
1,2-Dichloroethane-d4 (Surr)	98		66 - 126
Toluene-d8 (Surr)	101		67 - 127
Dibromofluoromethane (Surr)	101		68 - 128

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-616235/11
Matrix: Water
Analysis Batch: 616235

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.8	ug/L			09/13/22 13:35	1
Benzene	ND		0.50	0.080	ug/L			09/13/22 13:35	1
Bromobenzene	ND		1.0	0.091	ug/L			09/13/22 13:35	1
Bromochloromethane	ND		1.0	0.18	ug/L			09/13/22 13:35	1
Bromodichloromethane	ND		0.50	0.14	ug/L			09/13/22 13:35	1
Bromoform	ND		1.0	0.19	ug/L			09/13/22 13:35	1
Bromomethane	ND		1.0	0.21	ug/L			09/13/22 13:35	1
2-Butanone (MEK)	ND		2.0	0.33	ug/L			09/13/22 13:35	1
n-Butylbenzene	ND		1.0	0.18	ug/L			09/13/22 13:35	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			09/13/22 13:35	1
tert-Butylbenzene	ND		1.0	0.13	ug/L			09/13/22 13:35	1
Carbon disulfide	ND		2.0	0.36	ug/L			09/13/22 13:35	1
Carbon tetrachloride	ND		0.50	0.12	ug/L			09/13/22 13:35	1
Chlorobenzene	ND		0.50	0.070	ug/L			09/13/22 13:35	1
Chloroethane	ND		1.0	0.24	ug/L			09/13/22 13:35	1
Chloroform	ND		1.0	0.12	ug/L			09/13/22 13:35	1
Chloromethane	ND		1.0	0.26	ug/L			09/13/22 13:35	1
2-Chlorotoluene	ND		0.50	0.11	ug/L			09/13/22 13:35	1
4-Chlorotoluene	ND		0.50	0.10	ug/L			09/13/22 13:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.20	ug/L			09/13/22 13:35	1
Ethylene Dibromide (EDB)	ND		0.50	0.12	ug/L			09/13/22 13:35	1
Dibromochloromethane	ND		0.50	0.16	ug/L			09/13/22 13:35	1
Dibromomethane	ND		0.50	0.17	ug/L			09/13/22 13:35	1
1,2-Dichlorobenzene	ND		0.50	0.097	ug/L			09/13/22 13:35	1
1,3-Dichlorobenzene	ND		0.50	0.086	ug/L			09/13/22 13:35	1
1,4-Dichlorobenzene	ND		0.50	0.083	ug/L			09/13/22 13:35	1
Dichlorodifluoromethane	ND		1.0	0.32	ug/L			09/13/22 13:35	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			09/13/22 13:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/13/22 13:35	1
cis-1,2-Dichloroethene	ND		0.50	0.18	ug/L			09/13/22 13:35	1
trans-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/13/22 13:35	1
1,1-Dichloroethene	ND		0.50	0.13	ug/L			09/13/22 13:35	1
1,2-Dichloropropane	ND		0.50	0.15	ug/L			09/13/22 13:35	1
1,3-Dichloropropane	ND		1.0	0.10	ug/L			09/13/22 13:35	1
2,2-Dichloropropane	ND		1.0	0.46	ug/L			09/13/22 13:35	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			09/13/22 13:35	1
trans-1,3-Dichloropropene	ND		0.50	0.16	ug/L			09/13/22 13:35	1
1,1-Dichloropropene	ND		0.50	0.12	ug/L			09/13/22 13:35	1
Ethylbenzene	ND		0.50	0.084	ug/L			09/13/22 13:35	1
Hexachlorobutadiene	ND		1.0	0.23	ug/L			09/13/22 13:35	1
2-Hexanone	ND		2.0	0.17	ug/L			09/13/22 13:35	1
Isopropylbenzene	ND		0.50	0.11	ug/L			09/13/22 13:35	1
p-Isopropyltoluene	ND		1.0	0.15	ug/L			09/13/22 13:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	0.11	ug/L			09/13/22 13:35	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/13/22 13:35	1
Methylene Chloride	ND		1.0	0.16	ug/L			09/13/22 13:35	1
Naphthalene	ND		1.0	0.48	ug/L			09/13/22 13:35	1
N-Propylbenzene	ND		1.0	0.11	ug/L			09/13/22 13:35	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-616235/11
Matrix: Water
Analysis Batch: 616235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.13	ug/L			09/13/22 13:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			09/13/22 13:35	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.11	ug/L			09/13/22 13:35	1
Tetrachloroethene	ND		0.50	0.10	ug/L			09/13/22 13:35	1
Toluene	ND		0.50	0.095	ug/L			09/13/22 13:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/13/22 13:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L			09/13/22 13:35	1
1,1,1-Trichloroethane	ND		0.50	0.10	ug/L			09/13/22 13:35	1
1,1,2-Trichloroethane	ND		0.50	0.12	ug/L			09/13/22 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/13/22 13:35	1
Trichloroethene	ND		0.50	0.10	ug/L			09/13/22 13:35	1
Trichlorofluoromethane	ND		1.0	0.13	ug/L			09/13/22 13:35	1
1,2,3-Trichloropropane	ND		1.0	0.13	ug/L			09/13/22 13:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.32	ug/L			09/13/22 13:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.16	ug/L			09/13/22 13:35	1
Vinyl acetate	ND		2.0	0.19	ug/L			09/13/22 13:35	1
Vinyl chloride	ND		0.50	0.18	ug/L			09/13/22 13:35	1
m-Xylene & p-Xylene	ND		0.50	0.27	ug/L			09/13/22 13:35	1
o-Xylene	ND		0.50	0.14	ug/L			09/13/22 13:35	1
Xylenes, Total	ND		0.50	0.27	ug/L			09/13/22 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		69 - 129		09/13/22 13:35	1
1,2-Dichloroethane-d4 (Surr)	117		66 - 126		09/13/22 13:35	1
Toluene-d8 (Surr)	99		67 - 127		09/13/22 13:35	1
Dibromofluoromethane (Surr)	105		68 - 128		09/13/22 13:35	1

Lab Sample ID: LCS 320-616235/5
Matrix: Water
Analysis Batch: 616235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	45.4		ug/L		91	45 - 151
Benzene	20.0	19.1		ug/L		95	67 - 127
Bromobenzene	20.0	21.7		ug/L		109	68 - 128
Bromochloromethane	20.0	19.9		ug/L		100	69 - 129
Bromodichloromethane	20.0	21.1		ug/L		106	69 - 129
Bromoform	20.0	19.6		ug/L		98	64 - 134
Bromomethane	20.0	21.7		ug/L		108	65 - 125
2-Butanone (MEK)	50.0	44.0		ug/L		88	66 - 126
n-Butylbenzene	20.0	20.3		ug/L		102	70 - 130
sec-Butylbenzene	20.0	21.4		ug/L		107	69 - 129
tert-Butylbenzene	20.0	20.7		ug/L		104	68 - 128
Carbon disulfide	20.0	17.7		ug/L		89	66 - 126
Carbon tetrachloride	20.0	22.4		ug/L		112	71 - 131
Chlorobenzene	20.0	19.8		ug/L		99	66 - 126
Chloroethane	20.0	21.3		ug/L		107	67 - 127
Chloroform	20.0	21.3		ug/L		107	68 - 128

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-616235/5

Matrix: Water

Analysis Batch: 616235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	16.5		ug/L		82	64 - 124
2-Chlorotoluene	20.0	21.5		ug/L		108	66 - 126
4-Chlorotoluene	20.0	21.8		ug/L		109	67 - 127
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		93	58 - 139
Ethylene Dibromide (EDB)	20.0	20.9		ug/L		104	69 - 129
Dibromochloromethane	20.0	21.2		ug/L		106	70 - 130
Dibromomethane	20.0	20.4		ug/L		102	68 - 128
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	67 - 127
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	66 - 126
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	66 - 126
Dichlorodifluoromethane	20.0	16.2		ug/L		81	53 - 122
1,1-Dichloroethane	20.0	19.0		ug/L		95	67 - 127
1,2-Dichloroethane	20.0	23.1		ug/L		116	66 - 126
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	67 - 127
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	68 - 128
1,1-Dichloroethene	20.0	20.0		ug/L		100	69 - 129
1,2-Dichloropropane	20.0	18.7		ug/L		94	69 - 129
1,3-Dichloropropane	20.0	20.2		ug/L		101	67 - 127
2,2-Dichloropropane	20.0	19.0		ug/L		95	67 - 127
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	19.5		ug/L		98	70 - 130
1,1-Dichloropropene	20.0	20.5		ug/L		103	69 - 129
Ethylbenzene	20.0	19.9		ug/L		100	67 - 127
Hexachlorobutadiene	20.0	18.1		ug/L		91	72 - 134
2-Hexanone	50.0	53.0		ug/L		106	72 - 132
Isopropylbenzene	20.0	19.7		ug/L		99	69 - 129
p-Isopropyltoluene	20.0	21.0		ug/L		105	69 - 129
4-Methyl-2-pentanone (MIBK)	50.0	51.1		ug/L		102	70 - 130
Methyl tert-butyl ether	20.0	19.4		ug/L		97	67 - 127
Methylene Chloride	20.0	18.9		ug/L		94	67 - 127
Naphthalene	20.0	19.0		ug/L		95	60 - 144
N-Propylbenzene	20.0	21.5		ug/L		107	68 - 128
Styrene	20.0	19.8		ug/L		99	69 - 129
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 129
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	68 - 128
Tetrachloroethene	20.0	20.2		ug/L		101	69 - 129
Toluene	20.0	19.9		ug/L		100	68 - 128
1,2,3-Trichlorobenzene	20.0	17.7		ug/L		89	58 - 145
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	66 - 135
1,1,1-Trichloroethane	20.0	22.4		ug/L		112	69 - 129
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	69 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.9		ug/L		110	69 - 129
Trichloroethene	20.0	20.9		ug/L		105	69 - 129
Trichlorofluoromethane	20.0	23.7		ug/L		119	69 - 129
1,2,3-Trichloropropane	20.0	23.0		ug/L		115	68 - 128
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	68 - 128
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		108	68 - 128
Vinyl acetate	20.0	17.2		ug/L		86	62 - 140

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-616235/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 616235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	17.6		ug/L		88	65 - 125
m-Xylene & p-Xylene	20.0	20.4		ug/L		102	67 - 127
o-Xylene	20.0	20.0		ug/L		100	68 - 128
Xylenes, Total	40.0	40.4		ug/L		101	68 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		69 - 129
1,2-Dichloroethane-d4 (Surr)	114		66 - 126
Toluene-d8 (Surr)	102		67 - 127
Dibromofluoromethane (Surr)	106		68 - 128

Lab Sample ID: LCSD 320-616235/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 616235

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	50.0	43.7		ug/L		87	45 - 151	4	49
Benzene	20.0	19.1		ug/L		96	67 - 127	0	21
Bromobenzene	20.0	21.3		ug/L		107	68 - 128	2	17
Bromochloromethane	20.0	19.7		ug/L		99	69 - 129	1	19
Bromodichloromethane	20.0	21.5		ug/L		108	69 - 129	2	20
Bromoform	20.0	19.7		ug/L		99	64 - 134	1	16
Bromomethane	20.0	20.8		ug/L		104	65 - 125	4	40
2-Butanone (MEK)	50.0	44.0		ug/L		88	66 - 126	0	34
n-Butylbenzene	20.0	19.9		ug/L		99	70 - 130	2	25
sec-Butylbenzene	20.0	21.1		ug/L		106	69 - 129	1	19
tert-Butylbenzene	20.0	20.5		ug/L		103	68 - 128	1	19
Carbon disulfide	20.0	17.6		ug/L		88	66 - 126	1	26
Carbon tetrachloride	20.0	22.1		ug/L		110	71 - 131	1	25
Chlorobenzene	20.0	20.0		ug/L		100	66 - 126	1	15
Chloroethane	20.0	20.1		ug/L		101	67 - 127	6	40
Chloroform	20.0	21.1		ug/L		105	68 - 128	1	22
Chloromethane	20.0	15.8		ug/L		79	64 - 124	4	25
2-Chlorotoluene	20.0	21.4		ug/L		107	66 - 126	0	19
4-Chlorotoluene	20.0	21.7		ug/L		108	67 - 127	0	19
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	58 - 139	3	33
Ethylene Dibromide (EDB)	20.0	21.4		ug/L		107	69 - 129	3	15
Dibromochloromethane	20.0	21.5		ug/L		108	70 - 130	2	17
Dibromomethane	20.0	20.2		ug/L		101	68 - 128	1	17
1,2-Dichlorobenzene	20.0	19.3		ug/L		96	67 - 127	2	19
1,3-Dichlorobenzene	20.0	20.3		ug/L		102	66 - 126	2	17
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	66 - 126	1	15
Dichlorodifluoromethane	20.0	14.2		ug/L		71	53 - 122	13	51
1,1-Dichloroethane	20.0	18.8		ug/L		94	67 - 127	1	21
1,2-Dichloroethane	20.0	22.9		ug/L		115	66 - 126	1	25
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	67 - 127	1	18
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	68 - 128	2	20
1,1-Dichloroethene	20.0	19.8		ug/L		99	69 - 129	1	22

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-616235/6
Matrix: Water
Analysis Batch: 616235

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	20.0	18.8		ug/L		94	69 - 129	0	27
1,3-Dichloropropane	20.0	20.3		ug/L		102	67 - 127	1	15
2,2-Dichloropropane	20.0	19.1		ug/L		95	67 - 127	0	25
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	70 - 130	2	24
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	70 - 130	4	29
1,1-Dichloropropene	20.0	20.7		ug/L		103	69 - 129	1	20
Ethylbenzene	20.0	20.0		ug/L		100	67 - 127	0	15
Hexachlorobutadiene	20.0	18.1		ug/L		91	72 - 134	0	30
2-Hexanone	50.0	52.9		ug/L		106	72 - 132	0	31
Isopropylbenzene	20.0	19.8		ug/L		99	69 - 129	0	17
p-Isopropyltoluene	20.0	20.6		ug/L		103	69 - 129	2	18
4-Methyl-2-pentanone (MIBK)	50.0	50.5		ug/L		101	70 - 130	1	33
Methyl tert-butyl ether	20.0	18.9		ug/L		94	67 - 127	3	24
Methylene Chloride	20.0	18.5		ug/L		93	67 - 127	2	20
Naphthalene	20.0	18.0		ug/L		90	60 - 144	5	48
N-Propylbenzene	20.0	21.7		ug/L		108	68 - 128	1	26
Styrene	20.0	20.0		ug/L		100	69 - 129	1	15
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 129	0	23
1,1,2,2-Tetrachloroethane	20.0	20.0		ug/L		100	68 - 128	4	27
Tetrachloroethene	20.0	20.8		ug/L		104	69 - 129	3	18
Toluene	20.0	20.1		ug/L		101	68 - 128	1	20
1,2,3-Trichlorobenzene	20.0	16.0		ug/L		80	58 - 145	10	45
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	66 - 135	5	40
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	69 - 129	1	25
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	69 - 129	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8		ug/L		99	69 - 129	10	40
Trichloroethene	20.0	21.4		ug/L		107	69 - 129	2	20
Trichlorofluoromethane	20.0	22.1		ug/L		111	69 - 129	7	41
1,2,3-Trichloropropane	20.0	22.3		ug/L		112	68 - 128	3	22
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	68 - 128	3	17
1,3,5-Trimethylbenzene	20.0	21.3		ug/L		107	68 - 128	1	20
Vinyl acetate	20.0	16.4		ug/L		82	62 - 140	4	30
Vinyl chloride	20.0	16.6		ug/L		83	65 - 125	6	33
m-Xylene & p-Xylene	20.0	20.5		ug/L		102	67 - 127	1	15
o-Xylene	20.0	19.9		ug/L		99	68 - 128	1	18
Xylenes, Total	40.0	40.4		ug/L		101	68 - 128	0	16

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	98		69 - 129
1,2-Dichloroethane-d4 (Surr)	114		66 - 126
Toluene-d8 (Surr)	101		67 - 127
Dibromofluoromethane (Surr)	104		68 - 128

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-614885/1-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614885

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Acenaphthylene	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Anthracene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzo[a]anthracene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzo[k]fluoranthene	ND		10	0.96	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzo[g,h,i]perylene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzo[a]pyrene	ND		10	0.68	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzoic acid	ND		50	20	ug/L		09/07/22 12:18	09/23/22 19:04	1
Benzyl alcohol	ND		10	2.6	ug/L		09/07/22 12:18	09/23/22 19:04	1
Bis(2-chloroethoxy)methane	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
bis (2-chloroisopropyl) ether	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 19:04	1
Bis(2-ethylhexyl) phthalate	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Bromophenyl phenyl ether	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Butyl benzyl phthalate	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Chloroaniline	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Chloro-3-methylphenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Chloronaphthalene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Chlorophenol	ND		10	1.6	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Chlorophenyl phenyl ether	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Chrysene	ND		10	0.61	ug/L		09/07/22 12:18	09/23/22 19:04	1
Dibenz(a,h)anthracene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Dibenzofuran	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Di-n-butyl phthalate	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
1,2-Dichlorobenzene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
1,3-Dichlorobenzene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
1,4-Dichlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
3,3'-Dichlorobenzidine	ND		50	0.96	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4-Dichlorophenol	ND		10	2.6	ug/L		09/07/22 12:18	09/23/22 19:04	1
Diethyl phthalate	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4-Dimethylphenol	ND		10	2.2	ug/L		09/07/22 12:18	09/23/22 19:04	1
Dimethyl phthalate	ND		10	0.88	ug/L		09/07/22 12:18	09/23/22 19:04	1
4,6-Dinitro-2-methylphenol	ND		50	2.2	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4-Dinitrophenol	ND		50	20	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4-Dinitrotoluene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,6-Dinitrotoluene	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Di-n-octyl phthalate	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
Fluoranthene	ND		10	0.65	ug/L		09/07/22 12:18	09/23/22 19:04	1
Fluorene	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 19:04	1
Hexachlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Hexachlorobutadiene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 19:04	1
Hexachlorocyclopentadiene	ND		50	5.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Hexachloroethane	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Indeno[1,2,3-cd]pyrene	ND		10	3.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Isophorone	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Methylnaphthalene	ND		10	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Methylphenol	ND		10	0.93	ug/L		09/07/22 12:18	09/23/22 19:04	1

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-614885/1-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614885

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
3-Methylphenol & 4-Methylphenol	ND		20	1.2	ug/L		09/07/22 12:18	09/23/22 19:04	1
Naphthalene	ND		10	1.3	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Nitroaniline	ND		50	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
3-Nitroaniline	ND		50	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Nitroaniline	ND		50	1.5	ug/L		09/07/22 12:18	09/23/22 19:04	1
Nitrobenzene	ND		10	1.6	ug/L		09/07/22 12:18	09/23/22 19:04	1
2-Nitrophenol	ND		10	1.9	ug/L		09/07/22 12:18	09/23/22 19:04	1
4-Nitrophenol	ND		50	6.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
N-Nitrosodiphenylamine	ND		10	0.54	ug/L		09/07/22 12:18	09/23/22 19:04	1
N-Nitrosodi-n-propylamine	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Pentachlorophenol	ND		50	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Phenanthrene	ND		10	1.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
Phenol	ND		10	1.1	ug/L		09/07/22 12:18	09/23/22 19:04	1
Pyrene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
Pyridine	ND		20	0.80	ug/L		09/07/22 12:18	09/23/22 19:04	1
1,2,4-Trichlorobenzene	ND		10	1.4	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4,5-Trichlorophenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1
2,4,6-Trichlorophenol	ND		10	2.0	ug/L		09/07/22 12:18	09/23/22 19:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	35	S1-	55 - 140	09/07/22 12:18	09/23/22 19:04	1
2-Fluorobiphenyl (Surr)	32	S1-	57 - 98	09/07/22 12:18	09/23/22 19:04	1
2-Fluorophenol (Surr)	28	S1-	47 - 87	09/07/22 12:18	09/23/22 19:04	1
Nitrobenzene-d5 (Surr)	32	S1-	64 - 104	09/07/22 12:18	09/23/22 19:04	1
Phenol-d5 (Surr)	19	S1-	29 - 69	09/07/22 12:18	09/23/22 19:04	1
Terphenyl-d14 (Surr)	34	S1-	70 - 118	09/07/22 12:18	09/23/22 19:04	1

Lab Sample ID: LCS 320-614885/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	100	89.1		ug/L		89	60 - 100
Anthracene	100	91.6		ug/L		92	63 - 103
Benzo[a]anthracene	100	93.1		ug/L		93	66 - 109
Benzo[b]fluoranthene	100	94.5		ug/L		94	69 - 109
Benzo[k]fluoranthene	100	91.8		ug/L		92	67 - 107
Benzo[g,h,i]perylene	100	95.6		ug/L		96	63 - 113
Benzo[a]pyrene	100	92.9		ug/L		93	69 - 109
Benzoic acid	200	131	*+	ug/L		65	10 - 63
Benzyl alcohol	100	88.4		ug/L		88	63 - 105
Bis(2-chloroethoxy)methane	100	87.6		ug/L		88	62 - 102
Bis(2-chloroethyl)ether	100	88.4		ug/L		88	62 - 102
bis (2-chloroisopropyl) ether	100	79.1		ug/L		79	53 - 100
Bis(2-ethylhexyl) phthalate	100	85.3		ug/L		85	70 - 117
4-Bromophenyl phenyl ether	100	91.3		ug/L		91	64 - 111
Butyl benzyl phthalate	100	87.4		ug/L		87	69 - 116

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-614885/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloroaniline	100	65.8		ug/L		66	45 - 97
4-Chloro-3-methylphenol	100	95.4		ug/L		95	70 - 111
2-Chloronaphthalene	100	89.0		ug/L		89	60 - 100
2-Chlorophenol	100	92.4		ug/L		92	63 - 103
4-Chlorophenyl phenyl ether	100	88.1		ug/L		88	61 - 112
Chrysene	100	93.0		ug/L		93	64 - 111
Dibenz(a,h)anthracene	100	96.3		ug/L		96	65 - 112
Dibenzofuran	100	89.3		ug/L		89	62 - 103
Di-n-butyl phthalate	100	91.7		ug/L		92	67 - 107
1,2-Dichlorobenzene	100	80.8		ug/L		81	52 - 92
1,3-Dichlorobenzene	100	78.8		ug/L		79	50 - 90
1,4-Dichlorobenzene	100	79.1		ug/L		79	50 - 90
3,3'-Dichlorobenzidine	100	70.3		ug/L		70	52 - 114
2,4-Dichlorophenol	100	93.8		ug/L		94	66 - 106
Diethyl phthalate	100	89.3		ug/L		89	64 - 117
2,4-Dimethylphenol	100	92.4		ug/L		92	65 - 107
Dimethyl phthalate	100	90.3		ug/L		90	65 - 112
4,6-Dinitro-2-methylphenol	200	208		ug/L		104	63 - 118
2,4-Dinitrophenol	200	208		ug/L		104	49 - 128
2,4-Dinitrotoluene	100	98.0		ug/L		98	68 - 120
2,6-Dinitrotoluene	100	95.8		ug/L		96	68 - 116
Di-n-octyl phthalate	100	88.7		ug/L		89	68 - 117
Fluoranthene	100	97.3		ug/L		97	67 - 107
Fluorene	100	90.4		ug/L		90	62 - 109
Hexachlorobenzene	100	93.6		ug/L		94	56 - 124
Hexachlorobutadiene	100	74.6		ug/L		75	45 - 96
Hexachlorocyclopentadiene	100	49.9		ug/L		50	23 - 85
Hexachloroethane	100	73.8		ug/L		74	48 - 88
Indeno[1,2,3-cd]pyrene	100	98.1		ug/L		98	65 - 118
Isophorone	100	90.1		ug/L		90	62 - 102
2-Methylnaphthalene	100	80.2		ug/L		80	58 - 98
2-Methylphenol	100	90.6		ug/L		91	63 - 103
3-Methylphenol & 4-Methylphenol	100	86.2		ug/L		86	60 - 100
Naphthalene	100	87.3		ug/L		87	56 - 96
2-Nitroaniline	100	96.3		ug/L		96	61 - 127
3-Nitroaniline	100	76.5		ug/L		77	46 - 103
4-Nitroaniline	100	97.9		ug/L		98	67 - 112
Nitrobenzene	100	91.7		ug/L		92	64 - 104
2-Nitrophenol	100	97.8		ug/L		98	67 - 108
4-Nitrophenol	200	118		ug/L		59	32 - 89
N-Nitrosodiphenylamine	100	89.5		ug/L		89	64 - 104
N-Nitrosodi-n-propylamine	100	88.6		ug/L		89	63 - 108
Pentachlorophenol	200	207		ug/L		103	57 - 115
Phenanthrene	100	91.7		ug/L		92	62 - 103
Phenol	100	53.8		ug/L		54	32 - 72
Pyrene	100	89.0		ug/L		89	63 - 109
Pyridine	200	117		ug/L		58	41 - 81
1,2,4-Trichlorobenzene	100	83.2		ug/L		83	53 - 93
2,4,5-Trichlorophenol	100	96.2		ug/L		96	66 - 119

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-614885/2-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	100	97.2		ug/L		97	68 - 119
Surrogate							
	%Recovery	LCS	Qualifier	Limits			
2,4,6-Tribromophenol (Surr)	40	S1-	55 - 140				
2-Fluorobiphenyl (Surr)	35	S1-	57 - 98				
2-Fluorophenol (Surr)	31	S1-	47 - 87				
Nitrobenzene-d5 (Surr)	37	S1-	64 - 104				
Phenol-d5 (Surr)	22	S1-	29 - 69				
Terphenyl-d14 (Surr)	36	S1-	70 - 118				

Lab Sample ID: LCSD 320-614885/3-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614885

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	100	90.1		ug/L		90	63 - 103	1	30
Acenaphthylene	100	90.2		ug/L		90	60 - 100	1	30
Anthracene	100	93.8		ug/L		94	63 - 103	2	30
Benzo[a]anthracene	100	94.8		ug/L		95	66 - 109	2	30
Benzo[b]fluoranthene	100	95.3		ug/L		95	69 - 109	1	30
Benzo[k]fluoranthene	100	93.4		ug/L		93	67 - 107	2	30
Benzo[g,h,i]perylene	100	97.5		ug/L		97	63 - 113	2	30
Benzo[a]pyrene	100	94.8		ug/L		95	69 - 109	2	30
Benzoic acid	200	133	*+	ug/L		66	10 - 63	2	30
Benzyl alcohol	100	90.2		ug/L		90	63 - 105	2	30
Bis(2-chloroethoxy)methane	100	89.5		ug/L		90	62 - 102	2	30
Bis(2-chloroethyl)ether	100	91.1		ug/L		91	62 - 102	3	30
bis (2-chloroisopropyl) ether	100	79.9		ug/L		80	53 - 100	1	30
Bis(2-ethylhexyl) phthalate	100	83.8		ug/L		84	70 - 117	2	30
4-Bromophenyl phenyl ether	100	92.8		ug/L		93	64 - 111	2	30
Butyl benzyl phthalate	100	87.0		ug/L		87	69 - 116	0	30
4-Chloroaniline	100	68.5		ug/L		68	45 - 97	4	30
4-Chloro-3-methylphenol	100	96.0		ug/L		96	70 - 111	1	30
2-Chloronaphthalene	100	88.8		ug/L		89	60 - 100	0	30
2-Chlorophenol	100	93.0		ug/L		93	63 - 103	1	30
4-Chlorophenyl phenyl ether	100	90.1		ug/L		90	61 - 112	2	30
Chrysene	100	94.8		ug/L		95	64 - 111	2	30
Dibenz(a,h)anthracene	100	98.0		ug/L		98	65 - 112	2	30
Dibenzofuran	100	90.6		ug/L		91	62 - 103	1	30
Di-n-butyl phthalate	100	91.0		ug/L		91	67 - 107	1	30
1,2-Dichlorobenzene	100	80.8		ug/L		81	52 - 92	0	30
1,3-Dichlorobenzene	100	77.7		ug/L		78	50 - 90	1	30
1,4-Dichlorobenzene	100	79.5		ug/L		79	50 - 90	0	30
3,3'-Dichlorobenzidine	100	72.8		ug/L		73	52 - 114	4	30
2,4-Dichlorophenol	100	93.2		ug/L		93	66 - 106	1	30
Diethyl phthalate	100	90.6		ug/L		91	64 - 117	1	30
2,4-Dimethylphenol	100	91.8		ug/L		92	65 - 107	1	30
Dimethyl phthalate	100	92.7		ug/L		93	65 - 112	3	30

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-614885/3-A
Matrix: Water
Analysis Batch: 619679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614885

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	200	215		ug/L		108	63 - 118	3	30
2,4-Dinitrophenol	200	208		ug/L		104	49 - 128	0	30
2,4-Dinitrotoluene	100	103		ug/L		103	68 - 120	5	30
2,6-Dinitrotoluene	100	96.4		ug/L		96	68 - 116	1	30
Di-n-octyl phthalate	100	87.2		ug/L		87	68 - 117	2	30
Fluoranthene	100	99.8		ug/L		100	67 - 107	2	30
Fluorene	100	91.7		ug/L		92	62 - 109	1	30
Hexachlorobenzene	100	93.7		ug/L		94	56 - 124	0	30
Hexachlorobutadiene	100	71.6		ug/L		72	45 - 96	4	30
Hexachlorocyclopentadiene	100	50.3		ug/L		50	23 - 85	1	30
Hexachloroethane	100	71.6		ug/L		72	48 - 88	3	30
Indeno[1,2,3-cd]pyrene	100	99.6		ug/L		100	65 - 118	1	30
Isophorone	100	89.5		ug/L		90	62 - 102	1	30
2-Methylnaphthalene	100	80.3		ug/L		80	58 - 98	0	30
2-Methylphenol	100	93.2		ug/L		93	63 - 103	3	30
3-Methylphenol & 4-Methylphenol	100	88.8		ug/L		89	60 - 100	3	30
Naphthalene	100	86.8		ug/L		87	56 - 96	1	30
2-Nitroaniline	100	98.4		ug/L		98	61 - 127	2	30
3-Nitroaniline	100	82.4		ug/L		82	46 - 103	7	30
4-Nitroaniline	100	101		ug/L		101	67 - 112	3	30
Nitrobenzene	100	91.7		ug/L		92	64 - 104	0	30
2-Nitrophenol	100	97.1		ug/L		97	67 - 108	1	30
4-Nitrophenol	200	127		ug/L		63	32 - 89	7	30
N-Nitrosodiphenylamine	100	89.5		ug/L		90	64 - 104	0	30
N-Nitrosodi-n-propylamine	100	90.7		ug/L		91	63 - 108	2	30
Pentachlorophenol	200	213		ug/L		106	57 - 115	3	30
Phenanthrene	100	92.7		ug/L		93	62 - 103	1	30
Phenol	100	57.8		ug/L		58	32 - 72	7	30
Pyrene	100	90.0		ug/L		90	63 - 109	1	30
Pyridine	200	124		ug/L		62	41 - 81	6	30
1,2,4-Trichlorobenzene	100	80.9		ug/L		81	53 - 93	3	30
2,4,5-Trichlorophenol	100	98.3		ug/L		98	66 - 119	2	30
2,4,6-Trichlorophenol	100	96.1		ug/L		96	68 - 119	1	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	42	S1-	55 - 140
2-Fluorobiphenyl (Surr)	35	S1-	57 - 98
2-Fluorophenol (Surr)	30	S1-	47 - 87
Nitrobenzene-d5 (Surr)	44	S1-	64 - 104
Phenol-d5 (Surr)	23	S1-	29 - 69
Terphenyl-d14 (Surr)	35	S1-	70 - 118

QC Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 400-591436/1-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.020	0.015	ug/L		09/06/22 10:35	09/06/22 13:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	78		56 - 150				09/06/22 10:35	09/06/22 13:50	1

Lab Sample ID: LCS 400-591436/2-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.101	0.0856		ug/L		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	61	p	56 - 150				

Lab Sample ID: LCSD 400-591436/3-A
Matrix: Water
Analysis Batch: 591456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	0.101	0.0828		ug/L		82	70 - 130	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	60		56 - 150						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 320-614133/3
Matrix: Water
Analysis Batch: 614133

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.088	mg/L			09/02/22 13:50	1
Chloride	ND		1.0	0.37	mg/L			09/02/22 13:50	1
Sulfate	ND		1.0	0.36	mg/L			09/02/22 13:50	1

Lab Sample ID: LCS 320-614133/4
Matrix: Water
Analysis Batch: 614133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	7.50	7.48		mg/L		100	90 - 110
Chloride	7.50	7.42		mg/L		99	90 - 110
Sulfate	7.50	7.16		mg/L		95	90 - 110

Eurofins Sacramento

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 320-91650-1 MS
Matrix: Water
Analysis Batch: 614133

Client Sample ID: WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.18		5.00	4.95		mg/L		95	90 - 110
Chloride	9.7		5.00	14.4		mg/L		94	90 - 110
Sulfate	29		5.00	33.2	4	mg/L		84	90 - 110

Lab Sample ID: 320-91650-1 MSD
Matrix: Water
Analysis Batch: 614133

Client Sample ID: WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.18		5.00	4.97		mg/L		96	90 - 110	0	10
Chloride	9.7		5.00	14.6		mg/L		97	90 - 110	1	10
Sulfate	29		5.00	33.6	4	mg/L		93	90 - 110	1	10

Lab Sample ID: MB 320-614134/3
Matrix: Water
Analysis Batch: 614134

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.25	0.10	mg/L			09/02/22 13:50	1
Nitrite as N	ND		0.25	0.050	mg/L			09/02/22 13:50	1

Lab Sample ID: LCS 320-614134/4
Matrix: Water
Analysis Batch: 614134

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.50	1.46		mg/L		97	90 - 110
Nitrite as N	1.52	1.56		mg/L		102	90 - 110

Lab Sample ID: 320-91650-1 MS
Matrix: Water
Analysis Batch: 614134

Client Sample ID: WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND	H	1.00	0.960		mg/L		96	90 - 110
Nitrite as N	ND	H	1.52	1.51		mg/L		99	90 - 110

Lab Sample ID: 320-91650-1 MSD
Matrix: Water
Analysis Batch: 614134

Client Sample ID: WUABFFMW01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND	H	1.00	0.959		mg/L		96	90 - 110	0	10
Nitrite as N	ND	H	1.52	1.54		mg/L		101	90 - 110	2	10

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-614240/1-A
Matrix: Water
Analysis Batch: 615423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020	0.012	mg/L		09/07/22 10:50	09/08/22 15:39	1
Calcium	ND		0.50	0.050	mg/L		09/07/22 10:50	09/08/22 15:39	1
Lead	ND		0.0050	0.0025	mg/L		09/07/22 10:50	09/08/22 15:39	1
Magnesium	ND		0.50	0.040	mg/L		09/07/22 10:50	09/08/22 15:39	1
Potassium	ND		1.0	0.093	mg/L		09/07/22 10:50	09/08/22 15:39	1
Sodium	ND		1.0	0.25	mg/L		09/07/22 10:50	09/08/22 15:39	1

Lab Sample ID: LCS 320-614240/2-A
Matrix: Water
Analysis Batch: 615423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.475		mg/L		95	80 - 120
Calcium	25.0	23.9		mg/L		95	80 - 120
Lead	0.250	0.248		mg/L		99	80 - 120
Magnesium	25.0	23.1		mg/L		93	80 - 120
Potassium	25.0	22.7		mg/L		91	80 - 120
Sodium	25.0	23.4		mg/L		93	80 - 120

Lab Sample ID: MB 320-620608/1-A
Matrix: Water
Analysis Batch: 621143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.020	mg/L		09/27/22 16:55	09/29/22 10:57	1

Lab Sample ID: MB 320-620608/1-A
Matrix: Water
Analysis Batch: 621905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 620608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.10	0.020	mg/L		09/27/22 16:55	09/30/22 16:13	1
Manganese	ND		0.0050	0.0025	mg/L		09/27/22 16:55	09/30/22 16:13	1

Lab Sample ID: LCS 320-620608/2-A
Matrix: Water
Analysis Batch: 621143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.13		mg/L		103	80 - 120

Lab Sample ID: LCS 320-620608/2-A
Matrix: Water
Analysis Batch: 621905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 620608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.77		mg/L		95	80 - 120
Manganese	0.250	0.251		mg/L		100	80 - 120

Eurofins Sacramento

QC Association Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

GC/MS VOA

Analysis Batch: 615879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-2	Trip Blank	Total/NA	Water	8260B	
320-91650-3	EQP-01	Total/NA	Water	8260B	
MB 320-615879/12	Method Blank	Total/NA	Water	8260B	
LCS 320-615879/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-615879/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 616235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	8260B	
MB 320-616235/11	Method Blank	Total/NA	Water	8260B	
LCS 320-616235/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 320-616235/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 614885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	3510C	
MB 320-614885/1-A	Method Blank	Total/NA	Water	3510C	
LCS 320-614885/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 320-614885/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 619679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	8270C	614885
MB 320-614885/1-A	Method Blank	Total/NA	Water	8270C	614885
LCS 320-614885/2-A	Lab Control Sample	Total/NA	Water	8270C	614885
LCSD 320-614885/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	614885

GC Semi VOA

Prep Batch: 591436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	504.1	
320-91650-2	Trip Blank	Total/NA	Water	504.1	
320-91650-3	EQP-01	Total/NA	Water	504.1	
MB 400-591436/1-A	Method Blank	Total/NA	Water	504.1	
LCS 400-591436/2-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 400-591436/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	

Analysis Batch: 591456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	504.1	591436
320-91650-2	Trip Blank	Total/NA	Water	504.1	591436
320-91650-3	EQP-01	Total/NA	Water	504.1	591436
MB 400-591436/1-A	Method Blank	Total/NA	Water	504.1	591436
LCS 400-591436/2-A	Lab Control Sample	Total/NA	Water	504.1	591436
LCSD 400-591436/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	591436

QC Association Summary

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

HPLC/IC

Analysis Batch: 614133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	300.0	
MB 320-614133/3	Method Blank	Total/NA	Water	300.0	
LCS 320-614133/4	Lab Control Sample	Total/NA	Water	300.0	
320-91650-1 MS	WUABFFMW01	Total/NA	Water	300.0	
320-91650-1 MSD	WUABFFMW01	Total/NA	Water	300.0	

Analysis Batch: 614134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	300.0	
MB 320-614134/3	Method Blank	Total/NA	Water	300.0	
LCS 320-614134/4	Lab Control Sample	Total/NA	Water	300.0	
320-91650-1 MS	WUABFFMW01	Total/NA	Water	300.0	
320-91650-1 MSD	WUABFFMW01	Total/NA	Water	300.0	

Metals

Prep Batch: 614240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	3010A	
MB 320-614240/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-614240/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 615423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	6010B	614240
MB 320-614240/1-A	Method Blank	Total/NA	Water	6010B	614240
LCS 320-614240/2-A	Lab Control Sample	Total/NA	Water	6010B	614240

Prep Batch: 620608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Dissolved	Water	3010A	
MB 320-620608/1-A	Method Blank	Total/NA	Water	3010A	
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 621143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Dissolved	Water	6010B	620608
MB 320-620608/1-A	Method Blank	Total/NA	Water	6010B	620608
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	6010B	620608

Analysis Batch: 621905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Dissolved	Water	6010B	620608
MB 320-620608/1-A	Method Blank	Total/NA	Water	6010B	620608
LCS 320-620608/2-A	Lab Control Sample	Total/NA	Water	6010B	620608

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-1

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	616235	09/13/22 15:29	AFS	EET SAC
Total/NA	Prep	3510C			996.9 mL	1 mL	614885	09/07/22 12:18	AS	EET SAC
Total/NA	Analysis	8270C		1	1 mL	1 mL	619679	09/23/22 20:18	Y1S	EET SAC
Total/NA	Prep	504.1			35.5 mL	35 mL	591436	09/06/22 10:35	DS	EET PEN
Total/NA	Analysis	504.1		1			591456	09/06/22 15:35	DS	EET PEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	614133	09/02/22 14:25	Y1S	EET SAC
Total/NA	Analysis	300.0		1	10 mL	10 mL	614134	09/02/22 14:25	Y1S	EET SAC
Dissolved	Prep	3010A			50 mL	50 mL	620608	09/27/22 16:55	JP	EET SAC
Dissolved	Analysis	6010B		1			621905	09/30/22 16:24	SP	EET SAC
Dissolved	Prep	3010A			50 mL	50 mL	620608	09/27/22 16:55	JP	EET SAC
Dissolved	Analysis	6010B		1			621143	09/29/22 11:16	SP	EET SAC
Total/NA	Prep	3010A			50 mL	50 mL	614240	09/07/22 10:50	JP	EET SAC
Total/NA	Analysis	6010B		1			615423	09/08/22 17:08	SP	EET SAC

Client Sample ID: Trip Blank

Lab Sample ID: 320-91650-2

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	615879	09/12/22 15:19	AP1	EET SAC
Total/NA	Prep	504.1			35.5 mL	35 mL	591436	09/06/22 10:35	DS	EET PEN
Total/NA	Analysis	504.1		1			591456	09/06/22 15:56	DS	EET PEN

Client Sample ID: EQP-01

Lab Sample ID: 320-91650-3

Date Collected: 08/31/22 16:00

Matrix: Water

Date Received: 09/02/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	50 mL	50 mL	615879	09/12/22 19:09	AP1	EET SAC
Total/NA	Prep	504.1			35.2 mL	35 mL	591436	09/06/22 10:35	DS	EET PEN
Total/NA	Analysis	504.1		1			591456	09/06/22 16:16	DS	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET SAC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAC
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	EET PEN
300.0	Anions, Ion Chromatography	MCAWW	EET SAC
6010B	Metals (ICP)	SW846	EET SAC
3010A	Preparation, Total Metals	SW846	EET SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET SAC
5030B	Purge and Trap	SW846	EET SAC
504.1	Microextraction	EPA-DW	EET PEN

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91650-1	WUABFFMW01	Water	08/31/22 14:00	09/02/22 12:00
320-91650-2	Trip Blank	Water	08/31/22 16:00	09/02/22 12:00
320-91650-3	EQP-01	Water	08/31/22 16:00	09/02/22 12:00

1

2

3

4

5

6

7

8

9

10

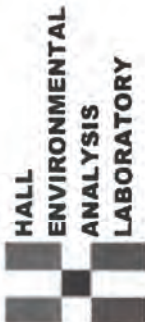
11

12

13

14

15



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975
 FAX: 505-345-4107
 Website: www.hallenvironmental.com

SUB CONTRACTOR		Eurofins Sacramento		COMPANY		PHONE:	(916) 373-5600	FAX	
ADDRESS		880 Riverside Parkway		ACCOUNT #		EMAIL			
CITY, STATE, ZIP		West Sacramento, CA 95605							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS		
1	2209002-001A	WUABFFMW01	VOAHL	Groundw	8/31/2022 2:00:00 PM	3	8260		
2	2209002-001B	WUABFFMW01	VOANA2S20	Groundw	8/31/2022 2:00:00 PM	2	EDB by 504.1		
3	2209002-001C	WUABFFMW01	1LAMGU	Groundw	8/31/2022 2:00:00 PM	1	8270		
4	2209002-001D	WUABFFMW01	500ML	Groundw	8/31/2022 2:00:00 PM	2	Br, Cl, SO4, NO2 by 300.0 NO2+NO3 by 353.2		
5	2209002-001E	WUABFFMW01	250HDPEHN	Groundw	8/31/2022 2:00:00 PM	1	Total Metals by 6010 As, Pb, Ca, Mg, K, Na		
6	2209002-001F	WUABFFMW01	125HDPHNO	Groundw	8/31/2022 2:00:00 PM	1	Dissolved Metals by 6010 Fe, Mn		
7	2209002-002A	Trip Blank	VOAHL	Trip		2	8260		
8	2209002-002B	Trip Blank	VOANA2S20	Trip		1	EDB by 504.1		
9	2209002-003A	EQP-01	VOAHL	Groundw	8/31/2022 4:00:00 PM	3	8260		
10	2209002-003B	EQP-01	VOANA2S20	Groundw	8/31/2022 4:00:00 PM	2	EDB by 504.1		



320-91650 Chain of Custody

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished by	<i>SA</i>	Date	9/17/2022	Time	8:10 AM	Received By	<i>SA</i>	Date	9/17/22	Time	Time
Relinquished by		Date		Time		Received By		Date		Time	Time
Relinquished by		Date		Time		Received By		Date		Time	Time

TAT: Standard RUSH 3rd BD 2nd BD Next BD

REPORT TRANSMITTAL DESIRED
 HARD COPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY
 Temp of samples *5.4°C* Attempt to Cool? _____
 Comments _____



Chain of Custody Record



Client Information (Sub Contract Lab)

Company: Eurofins Environment Testing Southeast
Address: 3355 McLemore Drive, Pensacola, FL 32514
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
Email: [Redacted]

Project Name: Kirkland AFB
Site: [Redacted]

Lab PM: Caparas, Criselda
E-Mail: Criselda.Caparas@et.eurofins.com
Phone: [Redacted]

Carrier Tracking No(s): 320-282793.1
State of Origin: New Mexico
Page: Page 1 of 1
Job #: 320-91650-1

Accreditations Required (See note): Dept. of Defense ELAP - A2LA; Dept. of Defense ELAP - A...

Analysis Requested

Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
X - Trizma
Z - other (specify)
Other: [Redacted]

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swastill, BT=Tissue, At=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	504.1/504.1_Prep EDB only	Total Number of Containers	Special Instructions/Note:
WUABFFMW01 (320-91650-1)	8/31/22	14:00 Mountain	Water	Water	X	X	X	2	
Trip Blank (320-91650-2)	8/31/22	16:00 Mountain	Water	Water	X	X	X	1	
EQP-01 (320-91650-3)	8/31/22	16:00 Mountain	Water	Water	X	X	X	2	

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

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Redacted] Date: [Redacted] Time: [Redacted]

Relinquished by: [Redacted] Date/Time: 8-22-22/16:30 Company: EETSAC
Relinquished by: [Redacted] Date/Time: [Redacted] Company: [Redacted]
Relinquished by: [Redacted] Date/Time: [Redacted] Company: [Redacted]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements:

Method of Shipment: [Redacted]
Received by: [Redacted] Date/Time: 9/3/22 09:45 Company: [Redacted]
Received by: [Redacted] Date/Time: [Redacted] Company: [Redacted]
Received by: [Redacted] Date/Time: [Redacted] Company: [Redacted]

Custody Seals Intact: [Redacted] Custody Seal No.: [Redacted]
Cooler Temperature(s) °C and Other Remarks: 2.0°C 128

Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91650-1

Login Number: 91650

List Source: Eurofins Sacramento

List Number: 1

Creator: Her, David A

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

Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91650-1

Login Number: 91650
List Number: 2
Creator: DeKlerk, Michaela

List Source: Eurofins Pensacola
List Creation: 09/03/22 11:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-91650-2
Client Project/Site: Kirkland AFB

For:
Hall Environmental Analysis Laboratory
4901 Hawkins NE
Suite D
Albuquerque, New Mexico 87109

Attn: Andy Freeman



Authorized for release by:
10/11/2022 5:43:19 PM

Criselda Caparas, Project Manager I
(925)484-1919
Criselda.Caparas@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Receipt Checklists	13

Definitions/Glossary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Case Narrative

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Job ID: 320-91650-2

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-91650-2

Comments

No additional comments.

Receipt

The samples were received on 9/2/2022 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4° C.

General Chemistry

Method SM 2320B: The method requirement for no headspace was not met. The following alkalinity samples in analytical batch 320-623261 were analyzed with headspace in the sample containers: WUABFFMW01 (320-91650-1). Due to the analyte being requested after the holding time had expired, the headspace requirement was not met. The container used for analysis contained headspace due to a shared container. Data is being reported with this narration.

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Detection Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Total Alkalinity	120	H	5.0	5.0	mg/L	1	SM 2320B	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	120	H	5.0	5.0	mg/L			10/07/22 14:24	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Hall Environmental Analysis Laboratory
 Project/Site: Kirkland AFB

Job ID: 320-91650-2

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 320-623261/7
Matrix: Water
Analysis Batch: 623261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	5.0	mg/L			10/07/22 12:26	1

Lab Sample ID: LCS 320-623261/8
Matrix: Water
Analysis Batch: 623261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	1000	983		mg/L		98	90 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

General Chemistry

Analysis Batch: 623261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91650-1	WUABFFMW01	Total/NA	Water	SM 2320B	
MB 320-623261/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 320-623261/8	Lab Control Sample	Total/NA	Water	SM 2320B	

1

2

3

4

5

6

7

8

9

10

11

12

13

Lab Chronicle

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Client Sample ID: WUABFFMW01

Lab Sample ID: 320-91650-1

Date Collected: 08/31/22 14:00

Matrix: Water

Date Received: 09/02/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	623261	10/07/22 14:24	DAN	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Accreditation/Certification Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Method	Method Description	Protocol	Laboratory
SM 2320B	Alkalinity	SM	EET SAC

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Hall Environmental Analysis Laboratory
Project/Site: Kirkland AFB

Job ID: 320-91650-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91650-1	WUABFFMW01	Water	08/31/22 14:00	09/02/22 12:00

1

2

3

4

5

6

7

8

9

10

11

12

13

Login Sample Receipt Checklist

Client: Hall Environmental Analysis Laboratory

Job Number: 320-91650-2

Login Number: 91650

List Source: Eurofins Sacramento

List Number: 1

Creator: Her, David A

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

Sample Log-In Check List

Client Name: Intera, Inc.

Work Order Number: 2209002

RcptNo: 1

Received By: Cheyenne Cason

8/31/2022 4:39:00 PM

CC

Completed By: Sean Livingston

9/1/2022 8:11:56 AM

SL

Reviewed By: *SL 9-1-22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Samples were collected the same day and chilled.
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
 (<2 or >12 unless noted)
 Adjusted? NO
 Checked by: 9/1/22

Special Handling (if applicable)

15. 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"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.8	Good				

Chain-of-Custody Record

Client: INTERA

Mailing Address: 2440 Louisiana Blvd NE
Ste 700 Albuquerque, NM 87110
 Phone #: 505.246.1600
 email or Fax#: jtracy@intera.com

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: Az Compliance NELAC Other

EDD (Type) Excel

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/31/22	1400	GW	WUABFFMW01	3 VOAS	HCl	22089002
8/31/22	1400	GW	"	2 VOAS	SOTH	021
8/31/22	1400	GW	"	1 L Amber	None	
8/31/22	1400	GW	"	250 mL Plstc	HNO3	
8/31/22	1400	GW	"	125 mL Plstc	HNO3 filter	
8/31/22	1400	GW	"	125 mL plastic	H2SO4	
8/31/22	1400	GW	"	500 mL Plstc	None	
8/31/22	1400	GW	"	3x40 mL VOA	HCl	
8/31/22	1600	Ag	Trip Blank	3 VOA	HCl	002
8/31/22	1600	Ag	EQP-01	2 VOA	SOTH	003
8/31/22	1600	Ag	EQP-01			

Turn-Around Time: Standard Rush

Project Name: Data Gap Well

Project #: ABWUA.C009.KAFB

Project Manager: Soa Tracy

Sampler: B. Archuleta, B. Mayhew

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 8.8-0-8.8

BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Alkalinity sm 23208	Amions E500	Total Metals (As, Pb, Cd, Mn)	Dissolved 6010 (Fe, Mn)
			X				X	X		X	X	X	X



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Remarks: Please overnight to Eurofins (Sacramento, CA) (ELAP Cart. No 2897)

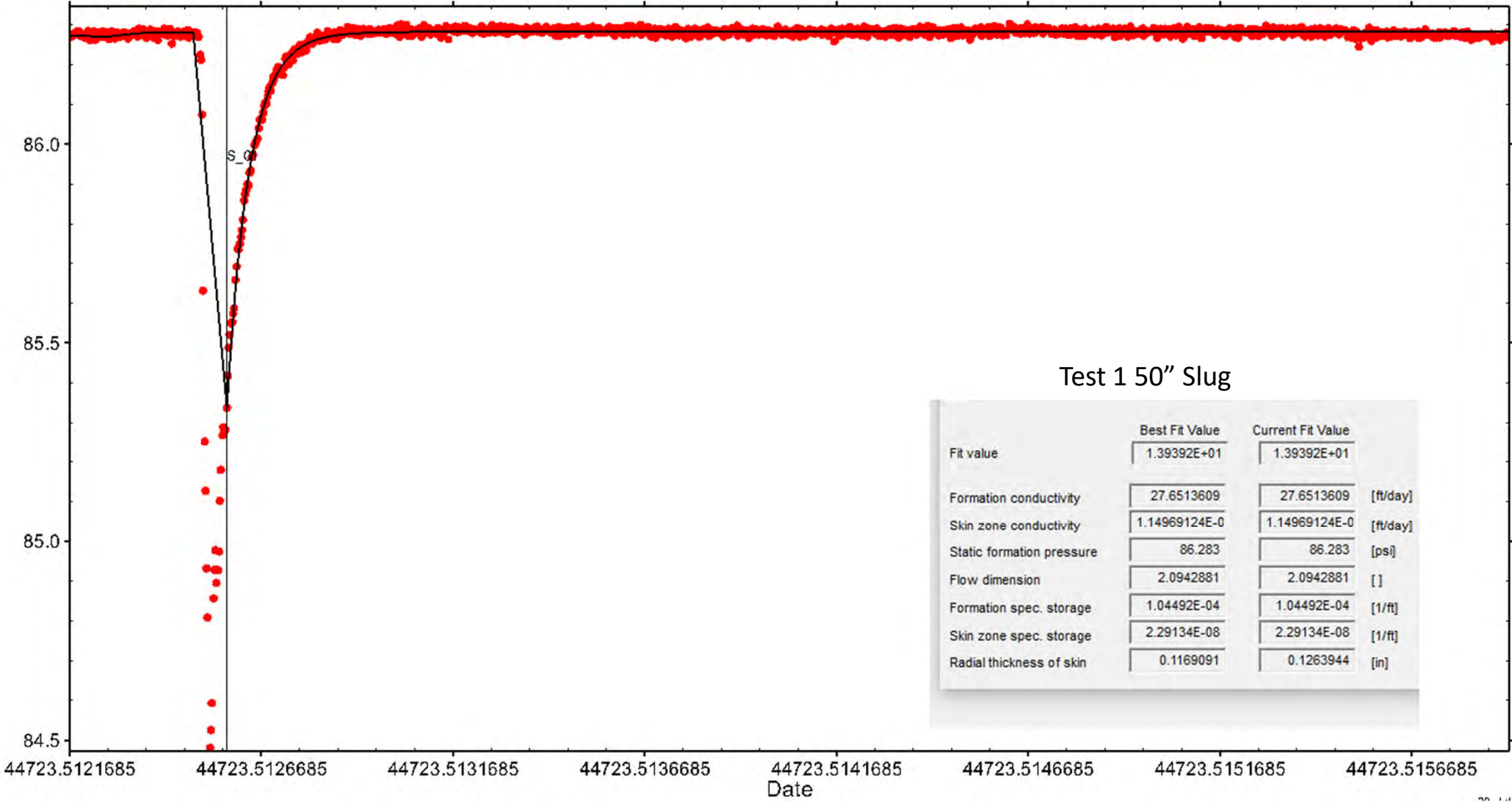
EQP-01 SAMPLE TIME = 1600

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix J

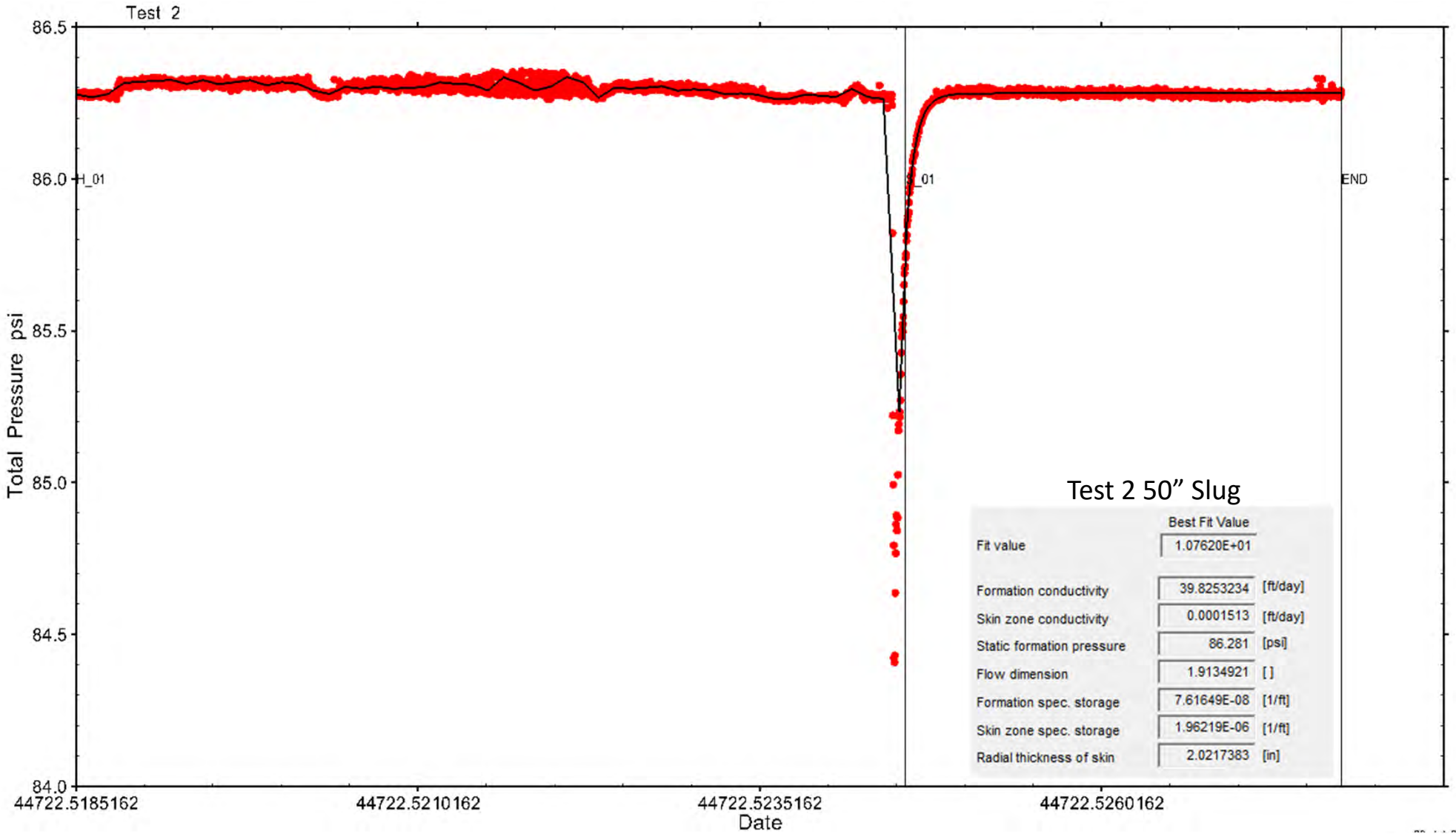
Slug Testing Results

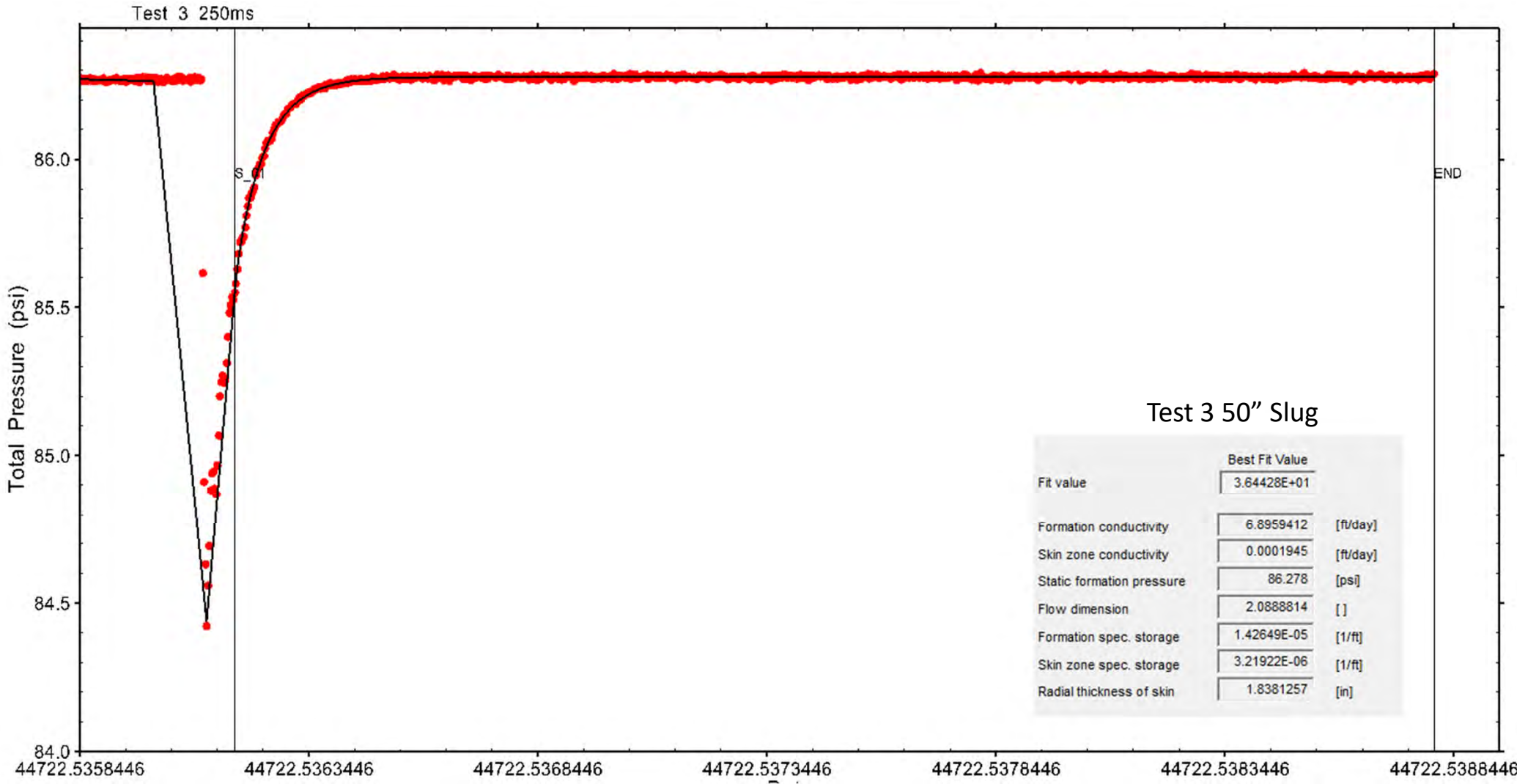
Enter Title



Test 1 50" Slug

Fit value	Best Fit Value	Current Fit Value
	1.39392E+01	1.39392E+01
Formation conductivity	27.6513609	27.6513609 [ft/day]
Skin zone conductivity	1.14969124E-0	1.14969124E-0 [ft/day]
Static formation pressure	86.283	86.283 [psi]
Flow dimension	2.0942881	2.0942881 []
Formation spec. storage	1.04492E-04	1.04492E-04 [1/ft]
Skin zone spec. storage	2.29134E-08	2.29134E-08 [1/ft]
Radial thickness of skin	0.1169091	0.1263944 [in]

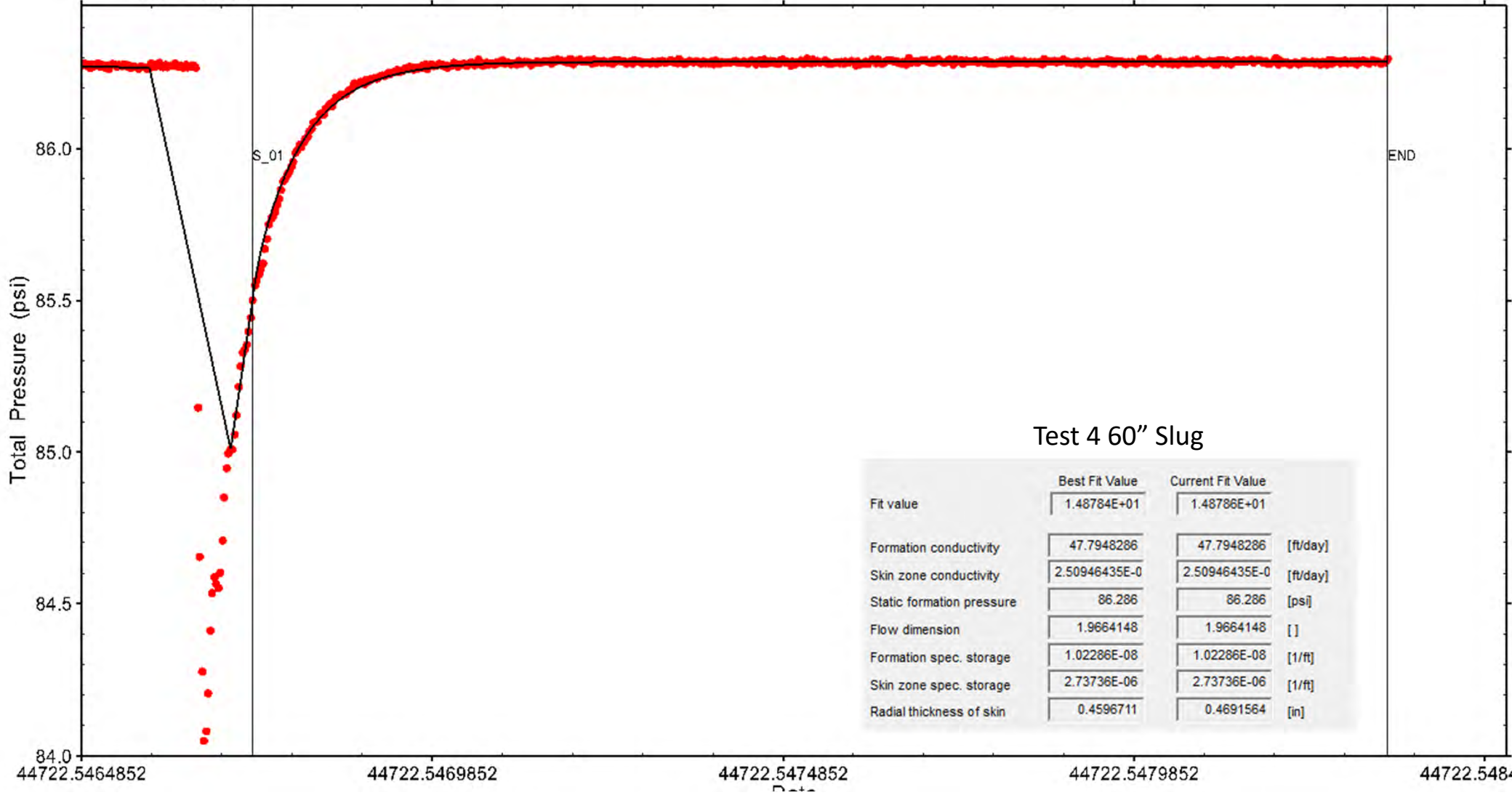




Test 3 50" Slug

Fit value	Best Fit Value	
	3.64428E+01	
Formation conductivity	6.8959412	[ft/day]
Skin zone conductivity	0.0001945	[ft/day]
Static formation pressure	86.278	[psi]
Flow dimension	2.088814	[]
Formation spec. storage	1.42649E-05	[1/ft]
Skin zone spec. storage	3.21922E-06	[1/ft]
Radial thickness of skin	1.8381257	[in]

Test 4 250ms



Test 4 60" Slug

Fit value	Best Fit Value	Current Fit Value	
	1.48784E+01	1.48786E+01	
Formation conductivity	47.7948286	47.7948286	[ft/day]
Skin zone conductivity	2.50946435E-0	2.50946435E-0	[ft/day]
Static formation pressure	86.286	86.286	[psi]
Flow dimension	1.9664148	1.9664148	[]
Formation spec. storage	1.02286E-08	1.02286E-08	[1/ft]
Skin zone spec. storage	2.73736E-06	2.73736E-06	[1/ft]
Radial thickness of skin	0.4596711	0.4691564	[in]

Appendix K

Waste Manifests



Requested Facility: Valencia Regional Landfill and Recycling Facility Unsure Profile Number: 105178NM
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- 1. Generator Name: Albuquerque Bernalillo County Water Utility A
- 2. Generator Site Address: 1 Civic Plaza NW
(City, State, ZIP) Albuquerque NM 87103
- 3. County: Bernalillo
- 4. Contact Name: Diane Agnew
- 5. Email: _____
- 6. Phone: (505) 289-3008 7. Fax: _____
- 8. Generator EPA ID: _____ N/A
- 9. State ID: _____ N/A

C. MATERIAL INFORMATION

- 1. Common Name: Drill Cuttings
Describe Process(es) Generating Material: See Attached

Monitoring Well Drilling. We are looking for EDB (ethylene dibromide) in groundwater from a Jet fuel spill a few miles away and that is the reason for the well. The drill cuttings are in the soil above the water table. No soil contaminants
- 2. Material Composition and Contaminants: See Attached

1. Soil	100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% ≥100%	
- 3. State Waste Codes: _____ N/A
- 4. Color: Brown to gray
- 5. Physical State at 70°F: Solid Liquid Other: _____
- 6. Free Liquid Range Percentage: _____ to _____ N/A
- 7. pH: _____ to _____ N/A
- 8. Strong Odor: Yes No Describe: _____
- 9. Flash Point: <140°F 140°-199°F ≥200° N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- 1. Analytical attached Yes
Please identify applicable samples and/or lab reports:

VOC/SVOC/EDB/Cyanide
- 2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Douglas Roshau Date: 03/17/2022
Title: Project Manager
Company: Advanced Environmental Solutions, Inc

B. BILLING INFORMATION

SAME AS GENERATOR

- 1. Billing Name: Advanced Environmental Solutions, Inc.
- 2. Billing Address: 2318 Roldan Drive
(City, State, ZIP) Belen NM 87002
- 3. Contact Name: Doug Roshau
- 4. Email: droshau@aesnm.com
- 5. Phone: (505) 861-1700 6. Fax: (505) 864-1710
- 7. WM Hauled? Yes No
- 8. P.O. Number: P13788
- 9. Payment Method: Credit Account Cash Credit Card

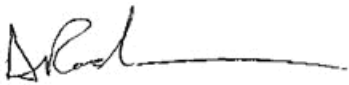
D. REGULATORY INFORMATION

- 1. EPA Hazardous Waste? Yes* No
Code: _____
- 2. State Hazardous Waste? Yes No
Code: _____
- 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
- 4. Contains Underlying Hazardous Constituents? Yes* No
- 5. From an industry regulated under Benzene NESHAP? Yes* No
- 6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
- 7. CERCLA or State-mandated clean-up? Yes* No
- 8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
- 9. Contains PCBs? → If Yes, answer a, b and c. Yes No
 - a. Regulated by 40 CFR 761? Yes No
 - b. Remediation under 40 CFR 761.61 (a)? Yes No
 - c. Were PCB imported into the US? Yes No
- 10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
- 11. Contains Asbestos? Yes No
→ If Yes: Non-Friable Non-Friable - Regulated Friable

F. SHIPPING AND DOT INFORMATION

- 1. One-Time Event Repeat Event/Ongoing Business
- 2. Estimated Quantity/Unit of Measure: 50
 Tons Yards Drums Gallons Other: _____
- 3. Container Type and Size: Roll off
- 4. USDOT Proper Shipping Name: _____ N/A

Certification Signature





Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: 105178NM

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

are expected or have been identified in the area.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? Yes No
 → If Yes, please check **one** of the following:
 - Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
 - Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.

2. State Hazardous Waste → Please list all state waste codes: _____

3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
 Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
 Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. Yes No
- b. Does this material contain benzene? Yes No
 1. If yes, what is the flow weighted average concentration? _____ ppmw
- c. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1–9.99 Mg ≥10 Mg
- d. Is this waste soil from a remediation? Yes No
 1. If yes, what is the benzene concentration in remediation waste? _____ ppmw
- e. Does the waste contain >10% water/moisture? Yes No
- f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No
- g. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No
 → If yes, specify exemption: _____
- h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.

8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 10, 2022

Joseph Tracy
Intera, Inc.
2440 Louisiana Blvd NE Suite 700
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Data Gap Well

OrderNo.: 2202502

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020A: METALS							Analyst: DBK
Arsenic	0.64	0.49		mg/Kg	5	3/4/2022 3:31:05 PM	65942
Lead	4.0	0.49		mg/Kg	5	3/4/2022 3:31:05 PM	65942
Selenium	ND	0.49		mg/Kg	5	3/4/2022 3:31:05 PM	65942
EPA METHOD 7471B: MERCURY							Analyst: VP
Mercury	ND	0.032		mg/Kg	1	3/7/2022 4:06:26 PM	65981
MERCURY, TCLP							Analyst: DBK
Mercury	ND	0.020		mg/L	1	2/17/2022 1:02:27 PM	65587
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Barium	54	0.19		mg/Kg	2	3/8/2022 5:41:26 PM	65942
Cadmium	ND	0.19		mg/Kg	2	3/8/2022 5:41:26 PM	65942
Chromium	4.6	0.58		mg/Kg	2	3/8/2022 5:41:26 PM	65942
Silver	ND	0.97		mg/Kg	2	3/8/2022 5:41:26 PM	65942
EPA METHOD 6010B: TCLP METALS							Analyst: JLF
Arsenic	ND	5.0		mg/L	1	2/23/2022 7:45:03 PM	65671
Barium	ND	100		mg/L	1	2/22/2022 5:57:15 PM	65671
Cadmium	ND	1.0		mg/L	1	2/22/2022 5:57:15 PM	65671
Chromium	ND	5.0		mg/L	1	2/23/2022 7:45:03 PM	65671
Lead	ND	5.0		mg/L	1	2/22/2022 5:57:15 PM	65671
Selenium	ND	1.0		mg/L	1	2/23/2022 7:45:03 PM	65671
Silver	ND	5.0		mg/L	1	2/24/2022 2:50:37 PM	65671
EPA METHOD 8011/504.1 MODIFIED: EDB							Analyst: JME
1,2-Dibromoethane	ND	0.072		µg/Kg	1	2/14/2022 8:04:19 PM	65514
EPA METHOD 8081: PESTICIDES							Analyst: LSB
4,4'-DDD	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
4,4'-DDE	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
4,4'-DDT	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Aldrin	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
alpha-BHC	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
beta-BHC	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Chlordane	ND	0.20		mg/Kg	1	2/25/2022 4:24:59 PM	65675
delta-BHC	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Dieldrin	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Endosulfan I	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Endosulfan II	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Endosulfan sulfate	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Endrin	ND	0.0030		mg/Kg	1	2/25/2022 4:24:59 PM	65675

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8081: PESTICIDES							Analyst: LSB
Endrin aldehyde	ND	0.0069		mg/Kg	1	2/25/2022 4:24:59 PM	65675
gamma-BHC	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Heptachlor	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Heptachlor epoxide	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Methoxychlor	ND	0.0040		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Toxaphene	ND	0.20		mg/Kg	1	2/25/2022 4:24:59 PM	65675
Surr: Decachlorobiphenyl	123	39.8-158		%Rec	1	2/25/2022 4:24:59 PM	65675
Surr: Tetrachloro-m-xylene	104	15-117		%Rec	1	2/25/2022 4:24:59 PM	65675
EPA METHOD 8081: PESTICIDES TCLP							Analyst: LSB
Chlordane	ND	0.030		mg/L	1	2/21/2022 2:14:26 PM	65591
Endrin	ND	0.020		mg/L	1	2/21/2022 2:14:26 PM	65591
gamma-BHC (Lindane)	ND	0.40		mg/L	1	2/21/2022 2:14:26 PM	65591
Heptachlor	ND	0.0080		mg/L	1	2/21/2022 2:14:26 PM	65591
Heptachlor epoxide	ND	0.0080		mg/L	1	2/21/2022 2:14:26 PM	65591
Methoxychlor	ND	10		mg/L	1	2/21/2022 2:14:26 PM	65591
Toxaphene	ND	0.50		mg/L	1	2/21/2022 2:14:26 PM	65591
Surr: Decachlorobiphenyl	108	57.2-162		%Rec	1	2/21/2022 2:14:26 PM	65591
Surr: Tetrachloro-m-xylene	72.0	22.3-116		%Rec	1	2/21/2022 2:14:26 PM	65591
EPA METHOD 8151: HERBICIDES TCLP							Analyst: JME
2,4,5-TP (Silvex)	ND	1.0		mg/L	1	2/22/2022 1:16:24 PM	65589
2,4-D	ND	10		mg/L	1	2/22/2022 1:16:24 PM	65589
Surr: 2,4-Dichlorophenylacetic acid	105	70-130		%Rec	1	2/22/2022 1:16:24 PM	65589
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JME
Acenaphthene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Acenaphthylene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Aniline	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Anthracene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Azobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benz(a)anthracene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzo(a)pyrene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzo(g,h,i)perylene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzoic acid	ND	0.98		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Benzyl alcohol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Bis(2-chloroethoxy)methane	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Bis(2-chloroethyl)ether	ND	0.29		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Bis(2-chloroisopropyl)ether	ND	0.29		mg/Kg	1	2/28/2022 11:45:14 AM	65676

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JME
Bis(2-ethylhexyl)phthalate	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Butyl benzyl phthalate	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Carbazole	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Chloro-3-methylphenol	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Chloroaniline	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Chloronaphthalene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Chlorophenol	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Chlorophenyl phenyl ether	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Chrysene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Di-n-butyl phthalate	ND	0.98		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Di-n-octyl phthalate	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Dibenzofuran	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
1,2-Dichlorobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
1,3-Dichlorobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
1,4-Dichlorobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Diethyl phthalate	ND	2.9		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Dimethyl phthalate	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4-Dichlorophenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4-Dimethylphenol	ND	0.29		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4-Dinitrophenol	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4-Dinitrotoluene	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,6-Dinitrotoluene	ND	0.49		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Fluoranthene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Fluorene	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Hexachlorobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Hexachlorobutadiene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Hexachloroethane	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Isophorone	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
1-Methylnaphthalene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Methylnaphthalene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Methylphenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
3+4-Methylphenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
N-Nitrosodi-n-propylamine	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JME
N-Nitrosodimethylamine	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Naphthalene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Nitroaniline	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
3-Nitroaniline	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Nitroaniline	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Nitrobenzene	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2-Nitrophenol	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
4-Nitrophenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Pentachlorophenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Phenanthrene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Phenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Pyrene	ND	0.20		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Pyridine	ND	0.98		mg/Kg	1	2/28/2022 11:45:14 AM	65676
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4,5-Trichlorophenol	ND	0.25		mg/Kg	1	2/28/2022 11:45:14 AM	65676
2,4,6-Trichlorophenol	ND	0.39		mg/Kg	1	2/28/2022 11:45:14 AM	65676
Surr: 2-Fluorophenol	46.0	20.3-74.1		%Rec	1	2/28/2022 11:45:14 AM	65676
Surr: Phenol-d5	57.1	23.1-92.7		%Rec	1	2/28/2022 11:45:14 AM	65676
Surr: 2,4,6-Tribromophenol	71.2	17.3-122		%Rec	1	2/28/2022 11:45:14 AM	65676
Surr: Nitrobenzene-d5	43.2	24.7-73.2		%Rec	1	2/28/2022 11:45:14 AM	65676
Surr: 2-Fluorobiphenyl	50.8	21.5-90.1		%Rec	1	2/28/2022 11:45:14 AM	65676
Surr: 4-Terphenyl-d14	92.5	15-140		%Rec	1	2/28/2022 11:45:14 AM	65676
EPA METHOD 8270C TCLP							Analyst: JME
2-Methylphenol	ND	200		mg/L	1	2/22/2022 3:09:44 PM	65605
3+4-Methylphenol	ND	200		mg/L	1	2/22/2022 3:09:44 PM	65605
2,4-Dinitrotoluene	ND	0.13		mg/L	1	2/22/2022 3:09:44 PM	65605
Hexachlorobenzene	ND	0.13		mg/L	1	2/22/2022 3:09:44 PM	65605
Hexachlorobutadiene	ND	0.50		mg/L	1	2/22/2022 3:09:44 PM	65605
Hexachloroethane	ND	3.0		mg/L	1	2/22/2022 3:09:44 PM	65605
Nitrobenzene	ND	2.0		mg/L	1	2/22/2022 3:09:44 PM	65605
Pentachlorophenol	ND	100		mg/L	1	2/22/2022 3:09:44 PM	65605
Pyridine	ND	5.0		mg/L	1	2/22/2022 3:09:44 PM	65605
2,4,5-Trichlorophenol	ND	400		mg/L	1	2/22/2022 3:09:44 PM	65605
2,4,6-Trichlorophenol	ND	2.0		mg/L	1	2/22/2022 3:09:44 PM	65605
Cresols, Total	ND	200		mg/L	1	2/22/2022 3:09:44 PM	65605
Surr: 2-Fluorophenol	51.6	25.3-76.7		%Rec	1	2/22/2022 3:09:44 PM	65605
Surr: Phenol-d5	39.4	17.2-63.1		%Rec	1	2/22/2022 3:09:44 PM	65605
Surr: 2,4,6-Tribromophenol	74.1	24-105		%Rec	1	2/22/2022 3:09:44 PM	65605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C TCLP							Analyst: JME
Surr: Nitrobenzene-d5	55.6	34.1-92.2		%Rec	1	2/22/2022 3:09:44 PM	65605
Surr: 2-Fluorobiphenyl	54.3	31.4-91.8		%Rec	1	2/22/2022 3:09:44 PM	65605
Surr: 4-Terphenyl-d14	99.4	32.4-108		%Rec	1	2/22/2022 3:09:44 PM	65605
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	0.025		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Toluene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Ethylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Naphthalene	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1-Methylnaphthalene	ND	0.20		mg/Kg	1	2/17/2022 6:16:40 PM	65499
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Acetone	ND	0.75		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Bromobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Bromodichloromethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Bromoform	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Bromomethane	ND	0.15		mg/Kg	1	2/17/2022 6:16:40 PM	65499
2-Butanone	ND	0.50		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Carbon disulfide	ND	0.50		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Carbon tetrachloride	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Chlorobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Chloroethane	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Chloroform	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Chloromethane	ND	0.15		mg/Kg	1	2/17/2022 6:16:40 PM	65499
2-Chlorotoluene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
4-Chlorotoluene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
cis-1,2-DCE	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Dibromochloromethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Dibromomethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1-Dichloroethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2202502

Date Reported: 3/10/2022

CLIENT: Intera, Inc.

Client Sample ID: WUABFFMW01-RO-1

Project: Data Gap Well

Collection Date: 2/9/2022 11:07:00 AM

Lab ID: 2202502-001

Matrix: SOIL

Received Date: 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,1-Dichloroethene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2-Dichloropropane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,3-Dichloropropane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
2,2-Dichloropropane	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1-Dichloropropene	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Hexachlorobutadiene	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
2-Hexanone	ND	0.50		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Isopropylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
4-Isopropyltoluene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Methylene chloride	ND	0.15		mg/Kg	1	2/17/2022 6:16:40 PM	65499
n-Butylbenzene	ND	0.15		mg/Kg	1	2/17/2022 6:16:40 PM	65499
n-Propylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
sec-Butylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Styrene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
tert-Butylbenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
trans-1,2-DCE	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Trichlorofluoromethane	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Vinyl chloride	ND	0.050		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Xylenes, Total	ND	0.10		mg/Kg	1	2/17/2022 6:16:40 PM	65499
Surr: Dibromofluoromethane	103	70-130		%Rec	1	2/17/2022 6:16:40 PM	65499
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/17/2022 6:16:40 PM	65499
Surr: Toluene-d8	100	70-130		%Rec	1	2/17/2022 6:16:40 PM	65499
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/17/2022 6:16:40 PM	65499

EPA METHOD 8260B: TCLP COMPOUNDS

Analyst: JR

Benzene	ND	0.50		ppm	10	2/16/2022 7:16:39 PM	65499
1,2-Dichloroethane (EDC)	ND	0.50		ppm	10	2/16/2022 7:16:39 PM	65499
2-Butanone	ND	200		ppm	10	2/16/2022 7:16:39 PM	65499
Carbon tetrachloride	ND	0.50		ppm	10	2/16/2022 7:16:39 PM	65499

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Client Sample ID:** WUABFFMW01-RO-1**Project:** Data Gap Well**Collection Date:** 2/9/2022 11:07:00 AM**Lab ID:** 2202502-001**Matrix:** SOIL**Received Date:** 2/9/2022 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: TCLP COMPOUNDS							Analyst: JR
Chlorobenzene	ND	100		ppm	10	2/16/2022 7:16:39 PM	65499
Chloroform	ND	6.0		ppm	10	2/16/2022 7:16:39 PM	65499
1,4-Dichlorobenzene	ND	7.5		ppm	10	2/16/2022 7:16:39 PM	65499
1,1-Dichloroethene	ND	0.70		ppm	10	2/16/2022 7:16:39 PM	65499
Tetrachloroethene (PCE)	ND	0.70		ppm	10	2/16/2022 7:16:39 PM	65499
Trichloroethene (TCE)	ND	0.50		ppm	10	2/16/2022 7:16:39 PM	65499
Vinyl chloride	ND	0.20		ppm	10	2/16/2022 7:16:39 PM	65499
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10	2/16/2022 7:16:39 PM	65499
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10	2/16/2022 7:16:39 PM	65499
Surr: Dibromofluoromethane	112	70-130		%Rec	10	2/16/2022 7:16:39 PM	65499
Surr: Toluene-d8	108	70-130		%Rec	10	2/16/2022 7:16:39 PM	65499
SM4500H+B/EPA 9040C							Analyst: JRR
pH	8.73			pH Units	1	2/11/2022 12:04:00 PM	R85776

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: Hall Environmental Analysis Lab
Address: 4901 Hawkins NE Suite D
Albuquerque, NM 87109
Attn: Andy Freeman

Work Order: MCB0439
Project: 2202502
Reported: 3/10/2022 08:40

Analytical Results Report

Sample Location: 2202502-001C (WUABFFMW01-Ro-1)
Lab/Sample Number: MCB0439-01 **Collect Date:** 02/09/22 11:07
Date Received: 02/11/22 14:19 **Collected By:**
Matrix: Soil

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
% Solids	95.3	%	0.100	2/23/22 12:00	BMM	SM 2540 G	
Semivolatiles							
2,4,5-T	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
2,4,5-TP (Silvex)	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
2,4-D	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
2,4-DB	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Acifluorfen	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Bentazon	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Chloramben	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Clopyralid	ND	ug/kg dry	2.08	2/25/22 16:08	BMM	EPA 8151A	
Dalapon	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
DCPA (Acid Metabolites)	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Dicamba	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Dichlorprop	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Dinoseb	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
MCPA	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
MCPP	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Pentachlorophenol	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
Picloram	ND	ug/kg dry	5.20	2/25/22 16:08	BMM	EPA 8151A	
Triclopyr	ND	ug/kg dry	10.4	2/25/22 16:08	BMM	EPA 8151A	
<hr/>							
Surrogate: 2,4-DCPA	107%		45-155	2/25/22 16:08	BMM	EPA 8151A	

Authorized Signature,



Justin Doty For Todd Taruscio, Laboratory Manager

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BCB0640 - Herbicides

Blank (BCB0640-BLK1)

Prepared: 2/23/2022 Analyzed: 2/25/2022

MCPA	ND		10.0	ug/kg wet						
Triclopyr	ND		10.0	ug/kg wet						
Picloram	ND		5.00	ug/kg wet						
MCPP	ND		10.0	ug/kg wet						
Dinoseb	ND		10.0	ug/kg wet						
Dichlorprop	ND		10.0	ug/kg wet						
Dicamba	ND		10.0	ug/kg wet						
Dalapon	ND		10.0	ug/kg wet						
DCPA (Acid Metabolites)	ND		10.0	ug/kg wet						
2,4-D	ND		10.0	ug/kg wet						
Pentachlorophenol	ND		10.0	ug/kg wet						
Clopyralid	ND		2.00	ug/kg wet						
2,4,5-T	ND		10.0	ug/kg wet						
2,4,5-TP (Silvex)	ND		10.0	ug/kg wet						
2,4-DB	ND		10.0	ug/kg wet						
Acifluorfen	ND		10.0	ug/kg wet						
Bentazon	ND		10.0	ug/kg wet						
Chloramben	ND		10.0	ug/kg wet						
<i>Surrogate: 2,4-DCPA</i>			448	ug/kg wet	400		112	45-155		

LCS (BCB0640-BS1)

Prepared: 2/23/2022 Analyzed: 2/25/2022

MCPA	107		10.0	ug/kg wet	100		107	35-130		
2,4,5-T	121		10.0	ug/kg wet	100		121	35-130		
DCPA (Acid Metabolites)	88.1		10.0	ug/kg wet	100		88.1	35-130		
Dichlorprop	119		10.0	ug/kg wet	100		119	35-130		
Dicamba	102		10.0	ug/kg wet	100		102	35-130		
Dalapon	47.5		10.0	ug/kg wet	100		47.5	35-130		
Dinoseb	82.3		10.0	ug/kg wet	100		82.3	35-130		
Bentazon	117		10.0	ug/kg wet	100		117	35-130		
2,4-DB	126		10.0	ug/kg wet	100		126	35-130		
2,4,5-TP (Silvex)	126		10.0	ug/kg wet	100		126	35-130		
Pentachlorophenol	87.8		10.0	ug/kg wet	100		87.8	35-130		
Clopyralid	99.8		2.00	ug/kg wet	100		99.8	35-130		
2,4-D	122		10.0	ug/kg wet	100		122	35-130		
Acifluorfen	102		10.0	ug/kg wet	100		102	35-130		
Picloram	123		5.00	ug/kg wet	100		123	35-130		
<i>Surrogate: 2,4-DCPA</i>			477	ug/kg wet	400		119	45-155		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCB0640 - Herbicides (Continued)										
LCS Dup (BCB0640-BSD1)										
					Prepared: 2/23/2022 Analyzed: 2/25/2022					
MCPA	110		10.0	ug/kg wet	100		110	35-130	2.76	20
Pentachlorophenol	85.4		10.0	ug/kg wet	100		85.4	35-130	2.82	20
Dinoseb	83.4		10.0	ug/kg wet	100		83.4	35-130	1.33	20
Dichlorprop	123		10.0	ug/kg wet	100		123	35-130	2.71	20
Dicamba	102		10.0	ug/kg wet	100		102	35-130	0.0174	20
Dalapon	42.5		10.0	ug/kg wet	100		42.5	35-130	11.2	20
DCPA (Acid Metabolites)	86.6		10.0	ug/kg wet	100		86.6	35-130	1.65	20
Clopyralid	100		2.00	ug/kg wet	100		100	35-130	0.363	20
2,4-D	129		10.0	ug/kg wet	100		129	35-130	5.90	20
Bentazon	120		10.0	ug/kg wet	100		120	35-130	2.39	20
2,4,5-TP (Silvex)	125		10.0	ug/kg wet	100		125	35-130	1.35	20
Acifluorfen	99.6		10.0	ug/kg wet	100		99.6	35-130	2.79	20
2,4-DB	122		10.0	ug/kg wet	100		122	35-130	3.13	20
Picloram	125		5.00	ug/kg wet	100		125	35-130	1.79	20
2,4,5-T	125		10.0	ug/kg wet	100		125	35-130	2.77	20
<i>Surrogate: 2,4-DCPA</i>			<i>475</i>	<i>ug/kg wet</i>	<i>400</i>		<i>119</i>	<i>45-155</i>		

Matrix Spike (BCB0640-MS1)

Source: MCB0439-01

Prepared: 2/23/2022 Analyzed: 2/25/2022

DCPA (Acid Metabolites)	86.7		10.5	ug/kg dry	105	ND	82.8	30-130		
Dalapon	53.9		10.5	ug/kg dry	105	ND	51.5	30-130		
Dicamba	95.3		10.5	ug/kg dry	105	ND	91.0	30-130		
Dinoseb	75.0		10.5	ug/kg dry	105	ND	71.6	30-130		
MCPA	93.1		10.5	ug/kg dry	105	ND	88.9	30-130		
Pentachlorophenol	92.5		10.5	ug/kg dry	105	ND	88.3	30-130		
Dichlorprop	110		10.5	ug/kg dry	105	ND	105	30-130		
Clopyralid	92.3		2.10	ug/kg dry	105	ND	88.1	30-130		
Acifluorfen	78.8		10.5	ug/kg dry	105	ND	75.2	30-130		
2,4,5-T	119		10.5	ug/kg dry	105	ND	114	30-130		
2,4-DB	94.8		10.5	ug/kg dry	105	ND	90.5	30-130		
2,4-D	122		10.5	ug/kg dry	105	ND	117	30-130		
Picloram	84.4		5.24	ug/kg dry	105	ND	80.6	30-130		
2,4,5-TP (Silvex)	114		10.5	ug/kg dry	105	ND	109	30-130		
Bentazon	105		10.5	ug/kg dry	105	ND	100	30-130		
<i>Surrogate: 2,4-DCPA</i>			<i>442</i>	<i>ug/kg dry</i>	<i>419</i>		<i>105</i>	<i>45-155</i>		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCB0640 - Herbicides (Continued)										
Matrix Spike Dup (BCB0640-MSD1)			Source: MCB0439-01		Prepared: 2/23/2022 Analyzed: 2/25/2022					
Acifluorfen	81.2		10.5	ug/kg dry	105	ND	77.5	30-130	3.03	25
Pentachlorophenol	94.7		10.5	ug/kg dry	105	ND	90.4	30-130	2.35	25
MCPA	91.8		10.5	ug/kg dry	105	ND	87.7	30-130	1.44	25
Dinoseb	80.4		10.5	ug/kg dry	105	ND	76.8	30-130	7.02	25
Dichlorprop	109		10.5	ug/kg dry	105	ND	104	30-130	1.13	25
Dicamba	101		10.5	ug/kg dry	105	ND	96.0	30-130	5.39	25
Dalapon	52.8		10.5	ug/kg dry	105	ND	50.4	30-130	2.04	25
DCPA (Acid Metabolites)	90.0		10.5	ug/kg dry	105	ND	85.9	30-130	3.69	25
Bentazon	109		10.5	ug/kg dry	105	ND	104	30-130	3.68	25
2,4-DB	95.3		10.5	ug/kg dry	105	ND	91.0	30-130	0.561	25
2,4-D	123		10.5	ug/kg dry	105	ND	117	30-130	0.389	25
2,4,5-TP (Silvex)	113		10.5	ug/kg dry	105	ND	108	30-130	0.419	25
2,4,5-T	109		10.5	ug/kg dry	105	ND	104	30-130	9.06	25
Picloram	94.5		5.24	ug/kg dry	105	ND	90.2	30-130	11.3	25
Clopyralid	93.3		2.10	ug/kg dry	105	ND	89.1	30-130	1.02	25
<i>Surrogate: 2,4-DCPA</i>			<i>462</i>	<i>ug/kg dry</i>	<i>419</i>		<i>110</i>	<i>45-155</i>		



Sample Receipt and Preservation Form

MCB0439
Barcode
Due: 02/28/22

Client Name: Hall Project:

TAT: Normal RUSH: days

Samples Received From: FedEx UPS USPS Client Courier Other:

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 2 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: paper

Cooler Temp As Read (C): 3.8C Cooler Temp Corrected (C): Thermometer Used: TKS

Table with 4 columns: Question, Yes, No, N/A. Rows include Samples Received Intact?, Chain of Custody Present?, Samples Received Within Hold Time?, Samples Properly Preserved?, VOC Vials Free of Headspace (<6mm)?, VOC Trip Blanks Present?, Labels and Chains Agree?, Total Number of Sample Bottles Received: 1

Table with 4 columns: Question, Yes, No, N/A. Rows include Chain of Custody Fully Completed?, Correct Containers Received?, Anatek Bottles Used?

Record preservatives (and lot numbers, if known) for containers below:

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)
8151 soil - g402

Received/Inspected By: ER Date/Time: 2/11/22 14:19



SUB CONTRACTOR	Anatek ID	COMPANY:	Anatek Labs, Inc.	PHONE	(208) 883-2839	FAX	(208) 882-9246
ADDRESS	1282 Alturas Dr		ACCOUNT #:		EMAIL		
CITY, STATE, ZIP	Moscow, ID 83843						

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2202502-001C	WUABFFMW01-Ro-1	4OZGU	Soil	2/9/2022 11:07:00 AM	1	8151 in Soil

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>che</i>	Date: 2/10/2022	Time: 12:11 PM	Received By: <i>ER</i>	Date: 2/11/22	Time: 14:19	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	HARDCOPY (extra cost)	FAX
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	EMAIL	ONLINE
TAT: Standard <i>0</i>						FOR LAB USE ONLY	
RUSH						Temp of samples	C
Next BD						Attempt to Cool ?	
2nd BD						Comments:	
3rd BD							



ANALYTICAL REPORT

February 16, 2022

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Hall Environmental Analysis Laboratory

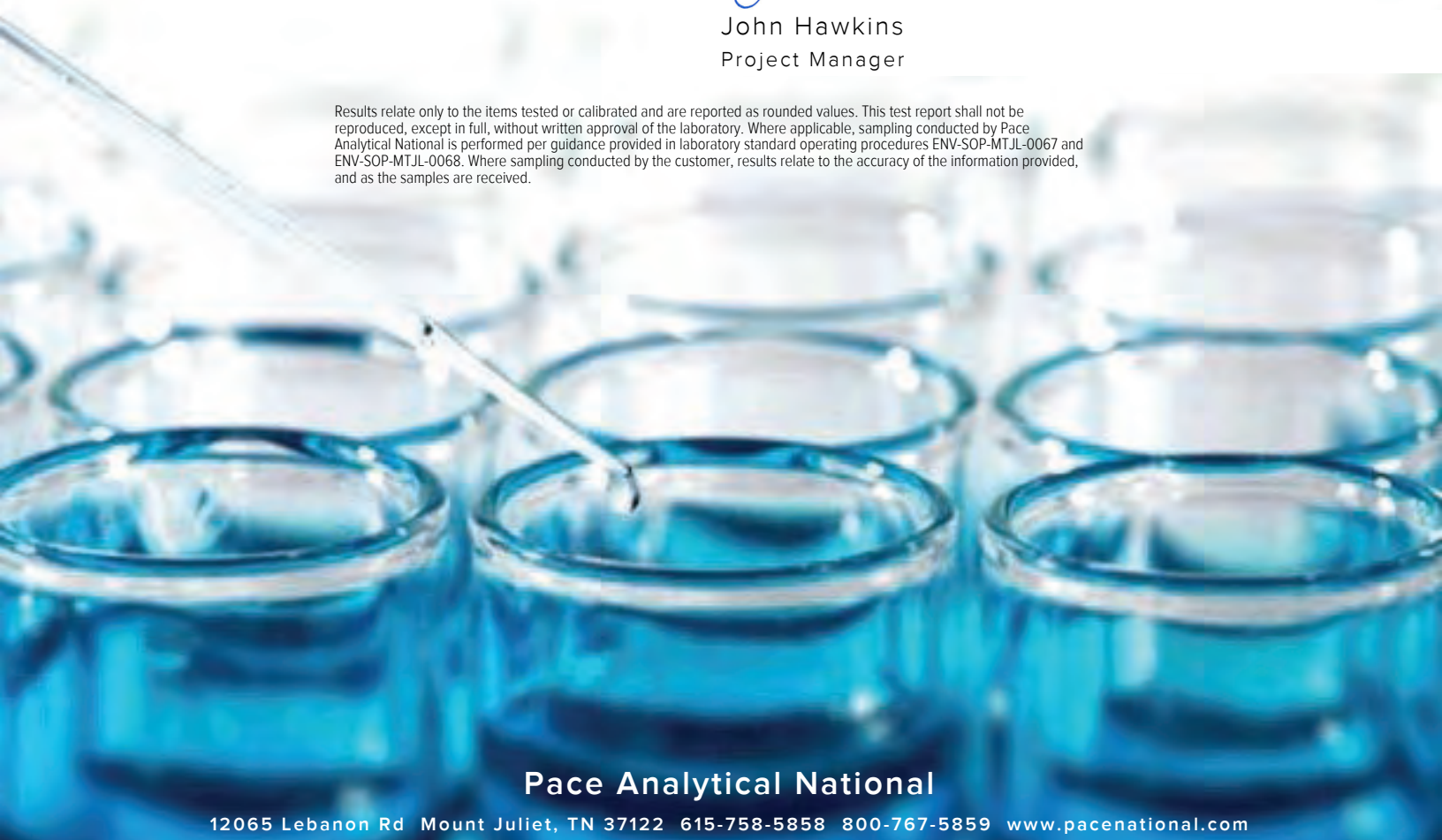
Sample Delivery Group: L1460728
Samples Received: 02/11/2022
Project Number:
Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

Entire Report Reviewed By:

John Hawkins
Project Manager











Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
2202502-001D WUABFFMW01-RO-1 L1460728-01	5	
Qc: Quality Control Summary	6	
Wet Chemistry by Method 9012B	6	
Wet Chemistry by Method D93/1010A	7	
Gl: Glossary of Terms	8	
Al: Accreditations & Locations	9	
Sc: Sample Chain of Custody	10	

SAMPLE SUMMARY

2202502-001D WUABFFMW01-RO-1 L1460728-01 Solid

Collected by:
 Collected date/time: 02/09/22 11:07
 Received date/time: 02/11/22 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1816626	1	02/13/22 22:25	02/15/22 16:56	LDT	Mt. Juliet, TN
Wet Chemistry by Method Calc.	WG1816626	1	02/13/22 22:25	02/15/22 16:56	LDT	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG1817454	1	02/14/22 02:23	02/14/22 02:23	WOS	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		0.250	1	02/15/2022 16:56	WG1816626

¹ Cp

² Tc

Wet Chemistry by Method Calc.

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide,amenable	ND		0.250	1	02/15/2022 16:56	WG1816626

³ Ss

⁴ Cn

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Ignitability	DNI at 170		1	02/14/2022 02:23	WG1817454

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3760326-1 02/15/22 16:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Cyanide	U		0.0733	0.250

¹Cp

²Tc

³Ss

L1460728-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1460728-01 02/15/22 16:56 • (DUP) R3760326-3 02/15/22 16:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Cyanide	ND	ND	1	0.000		20

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R3760326-2 02/15/22 16:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Cyanide	2.50	2.50	100	85.0-115	

⁶Qc

⁷Gl

L1460728-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1460728-01 02/15/22 16:56 • (MS) R3760326-4 02/15/22 16:58 • (MSD) R3760326-5 02/15/22 16:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Cyanide	1.67	ND	1.56	1.56	93.9	93.8	1	75.0-125			0.106	20

⁸Al

⁹Sc

L1459780-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1459780-01 02/14/22 02:23 • (DUP) R3759656-3 02/14/22 02:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ignitability	83.5	87.5	1	4.68		10

¹Cp

²Tc

³Ss

L1460006-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1460006-02 02/14/22 02:23 • (DUP) R3759656-4 02/14/22 02:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ignitability	95.5	99.5	1	4.10		10

⁴Cn

⁵Sr

⁶Qc

L1460320-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1460320-01 02/14/22 02:23 • (DUP) R3759656-5 02/14/22 02:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ignitability	DNI at 170	DNI at 170	1	0.000		10

⁷Gl

⁸Al

⁹Sc

L1460684-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1460684-01 02/14/22 02:23 • (DUP) R3759656-6 02/14/22 02:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ignitability	DNI at 170	DNI at 170	1	0.000		10

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3759656-1 02/14/22 02:23 • (LCSD) R3759656-2 02/14/22 02:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ignitability	126	122	122	96.4	96.4	95.6-104			0.000	10

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

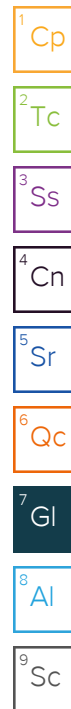
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

F235

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859	FAX: (615) 758-5859		
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2202502-001D	WUABFFMW01-Ro-1	8OZGU	Soil	2/9/2022 11:07:00 AM	1	Ignitabiliy, Total and Amenable Cyanide in soil <i>L460728-01</i>

Sample Receipt Checklist

COC Seal Present/Intact: Y N IF Applicable

COC Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RAD Screen <0.5 mR/hr: Y N

0.2 to 0.2 MSAG *COC SJ*

5528 9947 9927

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>cmc</i>	Date: 2/10/2022	Time: 12:10 PM	Received By: <i>[Signature]</i>	Date: 2/10/2022	Time: 0915
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard RUSH Next BD 2nd BD 3rd BD

REPORT TRANSMITTAL DESIRED:

HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY

Temp of samples _____ °C Attempt to Cool ? _____

Comments: _____

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65514	SampType: MBLK	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: PBS	Batch ID: 65514	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021823	Units: µg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.10								

Sample ID: MB-65514	SampType: MBLK	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: PBS	Batch ID: 65514	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021824	Units: µg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.10								

Sample ID: LCS-65514	SampType: LCS	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: LCSS	Batch ID: 65514	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021828	Units: µg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.89	0.10	1.000	0	89.4	70	130			

Sample ID: 2202502-001BMS	SampType: MS	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: WUABFFMW01-RO-	Batch ID: 65514	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021829	Units: µg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.46	0.070	0.7028	0	65.5	65	135			

Sample ID: 2202502-001BMSD	SampType: MSD	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: WUABFFMW01-RO-	Batch ID: 65514	RunNo: 85804								
Prep Date: 2/14/2022	Analysis Date: 2/14/2022	SeqNo: 3021830	Units: µg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.82	0.090	0.9044	0	90.7	65	135	56.2	20	R

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65942	SampType: MBLK	TestCode: EPA Method 6020A: Metals								
Client ID: PBS	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3040939	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.20								
Selenium	ND	0.20								

Sample ID: MSLCSLL-65942	SampType: LCSLL	TestCode: EPA Method 6020A: Metals								
Client ID: BatchQC	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3040940	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.20	0.1000	0	82.2	70	130			
Selenium	ND	0.20	0.1000	0	109	70	130			

Sample ID: MSLCS-65942	SampType: LCS	TestCode: EPA Method 6020A: Metals								
Client ID: LCSS	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3040941	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	4.8	0.20	5.000	0	95.2	80	120			
Selenium	4.4	0.20	5.000	0	87.8	80	120			

Sample ID: MB-65942	SampType: MBLK	TestCode: EPA Method 6020A: Metals								
Client ID: PBS	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3041014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.20								

Sample ID: MSLCSLL-65942	SampType: LCSLL	TestCode: EPA Method 6020A: Metals								
Client ID: BatchQC	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3041015	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.20	0.1000	0	88.5	70	130			

Sample ID: MSLCS-65942	SampType: LCS	TestCode: EPA Method 6020A: Metals								
Client ID: LCSS	Batch ID: 65942	RunNo: 86256								
Prep Date: 3/3/2022	Analysis Date: 3/4/2022	SeqNo: 3041017	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	4.8	0.20	5.000	0	96.5	80	120			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0030								
4,4'-DDE	ND	0.0030								
4,4'-DDT	ND	0.0030								
Aldrin	ND	0.0040								
alpha-BHC	ND	0.0040								
beta-BHC	ND	0.0040								
Chlordane	ND	0.20								
delta-BHC	ND	0.0040								
Dieldrin	ND	0.0030								
Endosulfan I	ND	0.0030								
Endosulfan II	ND	0.0030								
Endosulfan sulfate	ND	0.0040								
Endrin	ND	0.0030								
Endrin aldehyde	ND	0.0070								
gamma-BHC	ND	0.0040								
Heptachlor	ND	0.0040								
Heptachlor epoxide	ND	0.0040								
Methoxychlor	ND	0.0040								
Toxaphene	ND	0.20								
Surr: Decachlorobiphenyl	0.081		0.06250		130	39.8	158			
Surr: Tetrachloro-m-xylene	0.053		0.06250		84.8	15	117			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.0030								
4,4'-DDE	ND	0.0030								
4,4'-DDT	ND	0.0030								
Aldrin	ND	0.0040								
alpha-BHC	ND	0.0040								
beta-BHC	ND	0.0040								
Chlordane	ND	0.20								
delta-BHC	ND	0.0040								
Dieldrin	ND	0.0030								
Endosulfan I	ND	0.0030								
Endosulfan II	ND	0.0030								
Endosulfan sulfate	ND	0.0040								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65675	SampType: MBLK	TestCode: EPA Method 8081: PESTICIDES								
Client ID: PBS	Batch ID: 65675	RunNo: 86124								
Prep Date: 2/21/2022	Analysis Date: 2/25/2022	SeqNo: 3034727	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin	ND	0.0030								
Endrin aldehyde	ND	0.0070								
gamma-BHC	ND	0.0040								
Heptachlor	ND	0.0040								
Heptachlor epoxide	ND	0.0040								
Methoxychlor	ND	0.0040								
Toxaphene	ND	0.20								
Surr: Decachlorobiphenyl	0.081		0.06250		129	39.8	158			
Surr: Tetrachloro-m-xylene	0.053		0.06250		84.5	15	117			

Sample ID: LCS-65675	SampType: LCS	TestCode: EPA Method 8081: PESTICIDES								
Client ID: LCSS	Batch ID: 65675	RunNo: 86124								
Prep Date: 2/21/2022	Analysis Date: 2/25/2022	SeqNo: 3034728	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.013	0.0030	0.01250	0	104	37.1	139			
4,4'-DDE	0.013	0.0030	0.01250	0	100	32.2	142			
4,4'-DDT	0.013	0.0030	0.01250	0	101	27.8	152			
Aldrin	0.010	0.0040	0.01250	0	80.7	26.3	141			
alpha-BHC	0.0074	0.0040	0.01250	0	59.4	31.5	109			
beta-BHC	0.012	0.0040	0.01250	0	93.8	29.5	141			
delta-BHC	0.012	0.0040	0.01250	0	93.7	19	146			
Dieldrin	0.012	0.0030	0.01250	0	95.4	28.1	142			
Endosulfan I	0.011	0.0030	0.01250	0	90.6	29.7	136			
Endosulfan II	0.012	0.0030	0.01250	0	100	31.5	140			
Endosulfan sulfate	0.015	0.0040	0.01250	0	117	27.5	147			
Endrin	0.011	0.0030	0.01250	0	87.4	25	142			
Endrin aldehyde	0.014	0.0070	0.01250	0	108	24	144			
gamma-BHC	0.0082	0.0040	0.01250	0	65.6	34	114			
Heptachlor	0.0099	0.0040	0.01250	0	79.2	30.4	124			
Heptachlor epoxide	0.011	0.0040	0.01250	0	87.2	30.3	131			
Methoxychlor	0.013	0.0040	0.01250	0	106	29	156			
Surr: Decachlorobiphenyl	0.073		0.06250		117	39.8	158			
Surr: Tetrachloro-m-xylene	0.037		0.06250		59.6	15	117			

Sample ID: LCS-65675	SampType: LCS	TestCode: EPA Method 8081: PESTICIDES								
Client ID: LCSS	Batch ID: 65675	RunNo: 86124								
Prep Date: 2/21/2022	Analysis Date: 2/25/2022	SeqNo: 3034729	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCS-65675		SampType: LCS		TestCode: EPA Method 8081: PESTICIDES						
Client ID: LCSS		Batch ID: 65675		RunNo: 86124						
Prep Date: 2/21/2022		Analysis Date: 2/25/2022		SeqNo: 3034729			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.013	0.0030	0.01250	0	106	37.1	139			
4,4'-DDE	0.012	0.0030	0.01250	0	92.8	32.2	142			
4,4'-DDT	0.014	0.0030	0.01250	0	113	27.8	152			
Aldrin	0.0095	0.0040	0.01250	0	76.3	26.3	141			
alpha-BHC	0.0078	0.0040	0.01250	0	62.5	31.5	109			
beta-BHC	0.012	0.0040	0.01250	0	97.3	29.5	141			
delta-BHC	0.011	0.0040	0.01250	0	90.0	19	146			
Dieldrin	0.012	0.0030	0.01250	0	95.1	28.1	142			
Endosulfan I	0.012	0.0030	0.01250	0	93.7	29.7	136			
Endosulfan II	0.012	0.0030	0.01250	0	96.7	31.5	140			
Endosulfan sulfate	0.013	0.0040	0.01250	0	100	27.5	147			
Endrin	0.011	0.0030	0.01250	0	84.6	25	142			
Endrin aldehyde	0.014	0.0070	0.01250	0	109	24	144			
gamma-BHC	0.0087	0.0040	0.01250	0	69.8	34	114			
Heptachlor	0.0087	0.0040	0.01250	0	69.8	30.4	124			
Heptachlor epoxide	0.011	0.0040	0.01250	0	89.3	30.3	131			
Methoxychlor	0.014	0.0040	0.01250	0	108	29	156			
Surr: Decachlorobiphenyl	0.073		0.06250		117	39.8	158			
Surr: Tetrachloro-m-xylene	0.037		0.06250		59.2	15	117			

Sample ID: 2202502-001BMS		SampType: MS		TestCode: EPA Method 8081: PESTICIDES						
Client ID: WUABFFMW01-RO-		Batch ID: 65675		RunNo: 86124						
Prep Date: 2/21/2022		Analysis Date: 2/25/2022		SeqNo: 3034731			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.012	0.0029	0.01202	0	104	37.1	111			
4,4'-DDE	0.011	0.0029	0.01202	0	92.4	43.8	103			
4,4'-DDT	0.012	0.0029	0.01202	0	97.8	19.8	131			
Aldrin	0.011	0.0038	0.01202	0	93.5	34.7	119			
alpha-BHC	0.0085	0.0038	0.01202	0	70.3	31.3	109			
beta-BHC	0.012	0.0038	0.01202	0	104	25.5	131			
delta-BHC	0.011	0.0038	0.01202	0	93.7	15	147			
Dieldrin	0.012	0.0029	0.01202	0	99.0	26	124			
Endosulfan I	0.011	0.0029	0.01202	0	94.7	29	113			
Endosulfan II	0.012	0.0029	0.01202	0	97.8	37	102			
Endosulfan sulfate	0.012	0.0038	0.01202	0	101	26.2	115			
Endrin	0.012	0.0029	0.01202	0	104	35.2	117			
Endrin aldehyde	0.0099	0.0067	0.01202	0	82.2	15	127			
gamma-BHC	0.011	0.0038	0.01202	0	93.0	32.5	108			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: 2202502-001BMS	SampType: MS	TestCode: EPA Method 8081: PESTICIDES								
Client ID: WUABFFMW01-RO-	Batch ID: 65675	RunNo: 86124								
Prep Date: 2/21/2022	Analysis Date: 2/25/2022	SeqNo: 3034731 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Heptachlor	0.010	0.0038	0.01202	0	87.0	28.5	118			
Heptachlor epoxide	0.012	0.0038	0.01202	0	96.0	21.5	126			
Methoxychlor	0.014	0.0038	0.01202	0	117	30	121			
Surr: Decachlorobiphenyl	0.073		0.06010		121	39.8	158			
Surr: Tetrachloro-m-xylene	0.060		0.06010		99.2	15	117			

Sample ID: 2202502-001BMSD	SampType: MSD	TestCode: EPA Method 8081: PESTICIDES								
Client ID: WUABFFMW01-RO-	Batch ID: 65675	RunNo: 86124								
Prep Date: 2/21/2022	Analysis Date: 2/25/2022	SeqNo: 3034732 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4'-DDD	0.013	0.0029	0.01220	0	104	37.1	111	1.76	20	
4,4'-DDE	0.011	0.0029	0.01220	0	92.3	43.8	103	1.28	20	
4,4'-DDT	0.012	0.0029	0.01220	0	96.2	19.8	131	0.158	20	
Aldrin	0.011	0.0039	0.01220	0	89.7	34.7	119	2.68	20	
alpha-BHC	0.0095	0.0039	0.01220	0	78.3	31.3	109	12.2	20	
beta-BHC	0.012	0.0039	0.01220	0	102	25.5	131	0.125	20	
delta-BHC	0.011	0.0039	0.01220	0	93.6	15	147	1.34	20	
Dieldrin	0.014	0.0029	0.01220	0	118	26	124	18.8	20	
Endosulfan I	0.011	0.0029	0.01220	0	92.7	29	113	0.655	20	
Endosulfan II	0.012	0.0029	0.01220	0	97.5	37	102	1.15	20	
Endosulfan sulfate	0.013	0.0039	0.01220	0	107	26.2	115	6.96	20	
Endrin	0.013	0.0029	0.01220	0	105	35.2	117	2.34	20	
Endrin aldehyde	0.010	0.0068	0.01220	0	84.1	15	127	3.74	20	
gamma-BHC	0.011	0.0039	0.01220	0	88.9	32.5	108	3.09	20	
Heptachlor	0.010	0.0039	0.01220	0	83.1	28.5	118	3.19	20	
Heptachlor epoxide	0.012	0.0039	0.01220	0	95.6	21.5	126	0.989	20	
Methoxychlor	0.013	0.0039	0.01220	0	109	30	121	5.09	20	
Surr: Decachlorobiphenyl	0.069		0.06098		114	39.8	158	0	20	
Surr: Tetrachloro-m-xylene	0.053		0.06098		86.9	15	117	0	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65591	SampType: MBLK	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: PBW	Batch ID: 65591	RunNo: 85978								
Prep Date: 2/16/2022	Analysis Date: 2/21/2022	SeqNo: 3028716			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Endrin	ND	0.020								
gamma-BHC (Lindane)	ND	0.40								
Heptachlor	ND	0.0080								
Heptachlor epoxide	ND	0.0080								
Methoxychlor	ND	10								
Toxaphene	ND	0.50								
Surr: Decachlorobiphenyl	0.0026		0.002500		102	57.2	162			
Surr: Tetrachloro-m-xylene	0.0017		0.002500		68.5	22.3	116			

Sample ID: MB-65591	SampType: MBLK	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: PBW	Batch ID: 65591	RunNo: 85978								
Prep Date: 2/16/2022	Analysis Date: 2/21/2022	SeqNo: 3028718			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	ND	0.030								
Endrin	ND	0.020								
gamma-BHC (Lindane)	ND	0.40								
Heptachlor	ND	0.0080								
Heptachlor epoxide	ND	0.0080								
Methoxychlor	ND	10								
Toxaphene	ND	0.50								
Surr: Decachlorobiphenyl	0.0027		0.002500		107	57.2	162			
Surr: Tetrachloro-m-xylene	0.0017		0.002500		67.8	22.3	116			

Sample ID: MB-65712	SampType: MBLK	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: PBW	Batch ID: 65712	RunNo: 86124								
Prep Date: 2/22/2022	Analysis Date: 2/25/2022	SeqNo: 3034708			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0032		0.002500		128	57.2	162			
Surr: Tetrachloro-m-xylene	0.0019		0.002500		76.4	22.3	116			

Sample ID: MB-65712	SampType: MBLK	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: PBW	Batch ID: 65712	RunNo: 86124								
Prep Date: 2/22/2022	Analysis Date: 2/25/2022	SeqNo: 3034709			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0031		0.002500		125	57.2	162			
Surr: Tetrachloro-m-xylene	0.0019		0.002500		74.5	22.3	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCS-65712	SampType: LCS	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: LCSW	Batch ID: 65712	RunNo: 86124								
Prep Date: 2/22/2022	Analysis Date: 2/25/2022	SeqNo: 3034715	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0031		0.002500		123	57.2	162			
Surr: Tetrachloro-m-xylene	0.0016		0.002500		65.2	22.3	116			

Sample ID: LCS-65712	SampType: LCS	TestCode: EPA Method 8081: Pesticides TCLP								
Client ID: LCSW	Batch ID: 65712	RunNo: 86124								
Prep Date: 2/22/2022	Analysis Date: 2/25/2022	SeqNo: 3034716	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.0031		0.002500		122	57.2	162			
Surr: Tetrachloro-m-xylene	0.0016		0.002500		64.3	22.3	116			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: 0.05 PPM	SampType: LCS		TestCode: EPA Method 8151: Herbicides TCLP							
Client ID: LCSW	Batch ID: 65589		RunNo: 85972							
Prep Date: 2/17/2022	Analysis Date: 2/22/2022		SeqNo: 3030008		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)	0.050	0.00010	0.05000	0	99.4	70	130			
2,4-D	0.051	0.00010	0.05000	0	102	70	130			
Surr: 2,4-Dichlorophenylacetic aci	0.050		0.05000		99.9	70	130			

Sample ID: MB-65589	SampType: MBLK		TestCode: EPA Method 8151: Herbicides TCLP							
Client ID: PBW	Batch ID: 65589		RunNo: 85972							
Prep Date: 2/17/2022	Analysis Date: 2/22/2022		SeqNo: 3030009		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)	ND	1.0								
2,4-D	ND	10								
Surr: 2,4-Dichlorophenylacetic aci	0.050		0.05000		99.2	70	130			

Sample ID: MB-65589	SampType: MBLK		TestCode: EPA Method 8151: Herbicides TCLP							
Client ID: PBW	Batch ID: 65589		RunNo: 85972							
Prep Date: 2/17/2022	Analysis Date: 2/22/2022		SeqNo: 3030010		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)	ND	1.0								
2,4-D	ND	10								
Surr: 2,4-Dichlorophenylacetic aci	0.048		0.05000		96.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: ics-65499 SampType: LCS TestCode: EPA Method 8260B: Volatiles Client ID: LCSS Batch ID: 65499 RunNo: 85889 Prep Date: 2/11/2022 Analysis Date: 2/16/2022 SeqNo: 3024637 Units: mg/Kg										
Benzene	0.95	0.025	1.000	0	95.5	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Chlorobenzene	1.0	0.050	1.000	0	103	70	130			
1,1-Dichloroethene	0.80	0.050	1.000	0	79.6	70	130			
Trichloroethene (TCE)	0.95	0.050	1.000	0	94.6	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.3	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb-65499 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Client ID: PBS Batch ID: 65499 RunNo: 85889 Prep Date: 2/11/2022 Analysis Date: 2/16/2022 SeqNo: 3024638 Units: mg/Kg										
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: mb-65499	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: 65499	RunNo: 85889								
Prep Date: 2/11/2022	Analysis Date: 2/16/2022	SeqNo: 3024638 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: mb-65499	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: 65499	RunNo: 85889								
Prep Date: 2/11/2022	Analysis Date: 2/16/2022	SeqNo: 3024638 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: 2202502-001ams		SampType: MS		TestCode: EPA Method 8260B: TCLP Compounds						
Client ID: WUABFFMW01-RO-		Batch ID: 65499		RunNo: 85889						
Prep Date:		Analysis Date: 2/16/2022		SeqNo: 3024498		Units: ppm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.50	1.000	0	90.6	67.7	135			
Chlorobenzene	0.91	0.50	1.000	0	90.6	70	130			
1,1-Dichloroethene	0.63	0.50	1.000	0	63.3	38.5	142			
Trichloroethene (TCE)	0.89	0.50	1.000	0	89.3	64.7	129			
Surr: 1,2-Dichloroethane-d4	5.3		5.000		106	70	130			
Surr: 4-Bromofluorobenzene	5.2		5.000		104	70	130			
Surr: Dibromofluoromethane	5.4		5.000		109	70	130			
Surr: Toluene-d8	5.3		5.000		106	70	130			

Sample ID: 2202502-001amsd		SampType: MSD		TestCode: EPA Method 8260B: TCLP Compounds						
Client ID: WUABFFMW01-RO-		Batch ID: 65499		RunNo: 85889						
Prep Date:		Analysis Date: 2/16/2022		SeqNo: 3024499		Units: ppm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.50	1.000	0	93.2	67.7	135	2.83	20	
Chlorobenzene	0.92	0.50	1.000	0	91.8	70	130	1.26	20	
1,1-Dichloroethene	0.60	0.50	1.000	0	59.6	38.5	142	5.89	20	
Trichloroethene (TCE)	0.96	0.50	1.000	0	95.8	64.7	129	7.02	20	
Surr: 1,2-Dichloroethane-d4	5.4		5.000		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	5.2		5.000		104	70	130	0	0	
Surr: Dibromofluoromethane	5.6		5.000		111	70	130	0	0	
Surr: Toluene-d8	5.4		5.000		109	70	130	0	0	

Sample ID: lcs-65499		SampType: LCS		TestCode: EPA Method 8260B: TCLP Compounds						
Client ID: LCSS		Batch ID: 65499		RunNo: 85889						
Prep Date: 2/11/2022		Analysis Date: 2/16/2022		SeqNo: 3024501		Units: ppm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.5	70	130			
Chlorobenzene	1.0	0.050	1.000	0	103	70	130			
1,1-Dichloroethene	0.80	0.070	1.000	0	79.6	70	130			
Trichloroethene (TCE)	0.95	0.050	1.000	0	94.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.3	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb-65499	SampType: MBLK	TestCode: EPA Method 8260B: TCLP Compounds								
Client ID: PBS	Batch ID: 65499	RunNo: 85889								
Prep Date: 2/11/2022	Analysis Date: 2/16/2022	SeqNo: 3024502 Units: ppm								
Benzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
2-Butanone	ND	20								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	10								
Chloroform	ND	0.60								
1,4-Dichlorobenzene	ND	0.75								
1,1-Dichloroethene	ND	0.070								
Tetrachloroethene (PCE)	ND	0.070								
Trichloroethene (TCE)	ND	0.050								
Vinyl chloride	ND	0.020								
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.54		0.5000		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65676	SampType: MBLK	TestCode: EPA Method 8270C: Semivolatiles								
Client ID: PBS	Batch ID: 65676	RunNo: 86132								
Prep Date: 2/21/2022	Analysis Date: 2/28/2022	SeqNo: 3035194	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.25								
Acenaphthylene	ND	0.25								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.25								
Benz(a)anthracene	ND	0.25								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.25								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	1.0								
Benzyl alcohol	ND	0.40								
Bis(2-chloroethoxy)methane	ND	0.25								
Bis(2-chloroethyl)ether	ND	0.30								
Bis(2-chloroisopropyl)ether	ND	0.30								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.25								
Butyl benzyl phthalate	ND	0.25								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.25								
4-Chlorophenyl phenyl ether	ND	0.25								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	1.0								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.25								
1,2-Dichlorobenzene	ND	0.25								
1,3-Dichlorobenzene	ND	0.25								
1,4-Dichlorobenzene	ND	0.25								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	3.0								
Dimethyl phthalate	ND	0.40								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.40								
2,4-Dinitrophenol	ND	0.50								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65676	SampType: MBLK	TestCode: EPA Method 8270C: Semivolatiles								
Client ID: PBS	Batch ID: 65676	RunNo: 86132								
Prep Date: 2/21/2022	Analysis Date: 2/28/2022	SeqNo: 3035194	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								
Fluorene	ND	0.40								
Hexachlorobenzene	ND	0.25								
Hexachlorobutadiene	ND	0.25								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.25								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.40								
1-Methylnaphthalene	ND	0.25								
2-Methylnaphthalene	ND	0.25								
2-Methylphenol	ND	0.40								
3+4-Methylphenol	ND	0.40								
N-Nitrosodi-n-propylamine	ND	0.40								
N-Nitrosodimethylamine	ND	0.40								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.25								
2-Nitroaniline	ND	0.40								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.40								
2-Nitrophenol	ND	0.25								
4-Nitrophenol	ND	0.40								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.25								
Phenol	ND	0.40								
Pyrene	ND	0.20								
Pyridine	ND	1.0								
1,2,4-Trichlorobenzene	ND	0.25								
2,4,5-Trichlorophenol	ND	0.25								
2,4,6-Trichlorophenol	ND	0.40								
Surr: 2-Fluorophenol	1.5		3.330		45.2	20.3	74.1			
Surr: Phenol-d5	1.6		3.330		49.1	23.1	92.7			
Surr: 2,4,6-Tribromophenol	2.2		3.330		66.3	17.3	122			
Surr: Nitrobenzene-d5	0.71		1.670		42.4	24.7	73.2			
Surr: 2-Fluorobiphenyl	0.72		1.670		43.2	21.5	90.1			
Surr: 4-Terphenyl-d14	1.6		1.670		97.1	15	140			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCS-65676		SampType: LCS		TestCode: EPA Method 8270C: Semivolatiles						
Client ID: LCSS		Batch ID: 65676		RunNo: 86132						
Prep Date: 2/21/2022		Analysis Date: 2/28/2022		SeqNo: 3035195			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.89	0.25	1.670	0	53.2	22.9	109			
4-Chloro-3-methylphenol	2.0	0.50	3.330	0	59.0	24.2	109			
2-Chlorophenol	1.9	0.25	3.330	0	57.5	18.8	103			
1,4-Dichlorobenzene	0.83	0.25	1.670	0	49.8	18.8	89.5			
2,4-Dinitrotoluene	0.86	0.50	1.670	0	51.6	20.2	94.5			
N-Nitrosodi-n-propylamine	0.89	0.40	1.670	0	53.4	19.2	96.9			
4-Nitrophenol	2.7	0.40	3.330	0	80.0	25	118			
Pentachlorophenol	2.3	0.40	3.330	0	69.6	24.1	107			
Phenol	2.0	0.40	3.330	0	58.9	17.8	112			
Pyrene	1.6	0.20	1.670	0	95.2	25.9	125			
1,2,4-Trichlorobenzene	0.87	0.25	1.670	0	52.3	18.5	92.8			
Surr: 2-Fluorophenol	1.8		3.330		54.1	20.3	74.1			
Surr: Phenol-d5	2.0		3.330		58.6	23.1	92.7			
Surr: 2,4,6-Tribromophenol	2.3		3.330		69.2	17.3	122			
Surr: Nitrobenzene-d5	0.88		1.670		52.9	24.7	73.2			
Surr: 2-Fluorobiphenyl	0.92		1.670		55.1	21.5	90.1			
Surr: 4-Terphenyl-d14	1.6		1.670		98.4	15	140			

Sample ID: LCSD-65676		SampType: LCSD		TestCode: EPA Method 8270C: Semivolatiles						
Client ID: LCSS02		Batch ID: 65676		RunNo: 86132						
Prep Date: 2/21/2022		Analysis Date: 2/28/2022		SeqNo: 3035196			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.91	0.25	1.670	0	54.3	22.9	109	2.06	20	
4-Chloro-3-methylphenol	2.1	0.50	3.330	0	61.7	24.2	109	4.44	20	
2-Chlorophenol	1.6	0.25	3.330	0	47.9	18.8	103	18.2	20	
1,4-Dichlorobenzene	0.70	0.25	1.670	0	41.8	18.8	89.5	17.6	20	
2,4-Dinitrotoluene	0.92	0.50	1.670	0	54.9	20.2	94.5	6.30	20	
N-Nitrosodi-n-propylamine	0.99	0.40	1.670	0	59.2	19.2	96.9	10.4	20	
4-Nitrophenol	2.7	0.40	3.330	0	80.0	25	118	0.0576	20	
Pentachlorophenol	2.2	0.40	3.330	0	67.1	24.1	107	3.55	20	
Phenol	1.8	0.40	3.330	0	52.7	17.8	112	11.0	20	
Pyrene	1.6	0.20	1.670	0	94.4	25.9	125	0.904	20	
1,2,4-Trichlorobenzene	0.76	0.25	1.670	0	45.7	18.5	92.8	13.6	20	
Surr: 2-Fluorophenol	1.5		3.330		45.0	20.3	74.1	0	0	
Surr: Phenol-d5	1.8		3.330		52.9	23.1	92.7	0	0	
Surr: 2,4,6-Tribromophenol	2.4		3.330		72.7	17.3	122	0	0	
Surr: Nitrobenzene-d5	0.76		1.670		45.5	24.7	73.2	0	0	
Surr: 2-Fluorobiphenyl	0.86		1.670		51.7	21.5	90.1	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCSD-65676	SampType: LCSD	TestCode: EPA Method 8270C: Semivolatiles								
Client ID: LCSS02	Batch ID: 65676	RunNo: 86132								
Prep Date: 2/21/2022	Analysis Date: 2/28/2022	SeqNo: 3035196 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.6		1.670		93.5	15	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: MB-65605	SampType: MBLK		TestCode: EPA Method 8270C TCLP							
Client ID: PBS	Batch ID: 65605		RunNo: 85986							
Prep Date: 2/17/2022	Analysis Date: 2/22/2022		SeqNo: 3030061		Units: mg/L					
2-Methylphenol	ND	200								
3+4-Methylphenol	ND	200								
2,4-Dinitrotoluene	ND	0.13								
Hexachlorobenzene	ND	0.13								
Hexachlorobutadiene	ND	0.50								
Hexachloroethane	ND	3.0								
Nitrobenzene	ND	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND	400								
2,4,6-Trichlorophenol	ND	2.0								
Cresols, Total	ND	200								
Surr: 2-Fluorophenol	0.10		0.2000		51.2	25.3	76.7			
Surr: Phenol-d5	0.080		0.2000		39.9	17.2	63.1			
Surr: 2,4,6-Tribromophenol	0.15		0.2000		77.1	24	105			
Surr: Nitrobenzene-d5	0.055		0.1000		54.9	34.1	92.2			
Surr: 2-Fluorobiphenyl	0.052		0.1000		52.0	31.4	91.8			
Surr: 4-Terphenyl-d14	0.10		0.1000		101	32.4	108			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LCS-65605	SampType: LCS		TestCode: EPA Method 8270C TCLP							
Client ID: LCSS	Batch ID: 65605		RunNo: 85986							
Prep Date: 2/17/2022	Analysis Date: 2/22/2022		SeqNo: 3030062		Units: mg/L					
2-Methylphenol	0.048	0.00010	0.1000	0	48.3	17.1	95.2			
3+4-Methylphenol	0.098	0.00010	0.2000	0	49.1	15	102			
2,4-Dinitrotoluene	0.042	0.00010	0.1000	0	41.6	15	85.7			
Hexachlorobenzene	0.055	0.00010	0.1000	0	55.4	48.1	102			
Hexachlorobutadiene	0.038	0.00010	0.1000	0	38.3	16.7	90.8			
Hexachloroethane	0.043	0.00010	0.1000	0	42.6	16.8	83.3			
Nitrobenzene	0.051	0.00010	0.1000	0	51.2	21.8	104			
Pentachlorophenol	0.059	0.00010	0.1000	0	59.3	26.7	104			
Pyridine	0.024	0.00010	0.1000	0	24.4	15	75.5			
2,4,5-Trichlorophenol	0.059	0.00010	0.1000	0	58.6	17.4	113			
2,4,6-Trichlorophenol	0.052	0.00010	0.1000	0	52.2	20	109			
Cresols, Total	0.15	0.00010	0.3000	0	48.8	5.83	117			
Surr: 2-Fluorophenol	0.091		0.2000		45.4	25.3	76.7			
Surr: Phenol-d5	0.067		0.2000		33.7	17.2	63.1			
Surr: 2,4,6-Tribromophenol	0.14		0.2000		72.4	24	105			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCS-65605	SampType: LCS	TestCode: EPA Method 8270C TCLP								
Client ID: LCSS	Batch ID: 65605	RunNo: 85986								
Prep Date: 2/17/2022	Analysis Date: 2/22/2022	SeqNo: 3030062 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.056		0.1000		56.1	34.1	92.2			
Surr: 2-Fluorobiphenyl	0.056		0.1000		56.3	31.4	91.8			
Surr: 4-Terphenyl-d14	0.098		0.1000		97.7	32.4	108			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65981	SampType: MBLK	TestCode: EPA Method 7471B: Mercury								
Client ID: PBS	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042338	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: LCS-65981	SampType: LCS	TestCode: EPA Method 7471B: Mercury								
Client ID: LCSS	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042339	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1667	0	91.5	80	120			

Sample ID: LCSLL-65981	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042340	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	105	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042341	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	94.8	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042342	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	96.1	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 65981	RunNo: 86288								
Prep Date: 3/7/2022	Analysis Date: 3/7/2022	SeqNo: 3042343	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	93.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCSLL-65981	SampType: LCSLL		TestCode: EPA Method 7471B: Mercury							
Client ID: BatchQC	Batch ID: 65981		RunNo: 86288							
Prep Date: 3/7/2022	Analysis Date: 3/7/2022		SeqNo: 3042344	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	95.4	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL		TestCode: EPA Method 7471B: Mercury							
Client ID: BatchQC	Batch ID: 65981		RunNo: 86288							
Prep Date: 3/7/2022	Analysis Date: 3/7/2022		SeqNo: 3042345	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	95.8	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL		TestCode: EPA Method 7471B: Mercury							
Client ID: BatchQC	Batch ID: 65981		RunNo: 86288							
Prep Date: 3/7/2022	Analysis Date: 3/7/2022		SeqNo: 3042346	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	96.6	70	130			

Sample ID: LCSLL-65981	SampType: LCSLL		TestCode: EPA Method 7471B: Mercury							
Client ID: BatchQC	Batch ID: 65981		RunNo: 86288							
Prep Date: 3/7/2022	Analysis Date: 3/7/2022		SeqNo: 3042347	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	98.8	70	130			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65587	SampType: MBLK	TestCode: MERCURY, TCLP
Client ID: PBW	Batch ID: 65587	RunNo: 85903
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025098 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020

Sample ID: LL LCS-65587	SampType: LCSLL	TestCode: MERCURY, TCLP
Client ID: BatchQC	Batch ID: 65587	RunNo: 85903
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025099 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020 0.0001500 0 126 50 150

Sample ID: LL LCS2-65587	SampType: LCSLL	TestCode: MERCURY, TCLP
Client ID: BatchQC	Batch ID: 65587	RunNo: 85903
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025100 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020 0.0001500 0 125 50 150

Sample ID: LL LCS3-65587	SampType: LCSLL	TestCode: MERCURY, TCLP
Client ID: BatchQC	Batch ID: 65587	RunNo: 85903
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025101 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020 0.0001500 0 126 50 150

Sample ID: LCS-65587	SampType: LCS	TestCode: MERCURY, TCLP
Client ID: LCSW	Batch ID: 65587	RunNo: 85903
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025102 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020 0.005000 0 94.2 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65942	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 65942	RunNo: 86344								
Prep Date: 3/3/2022	Analysis Date: 3/8/2022	SeqNo: 3045232	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								

Sample ID: LCS-65942	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 65942	RunNo: 86344								
Prep Date: 3/3/2022	Analysis Date: 3/8/2022	SeqNo: 3045234	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	23	0.10	25.00	0	92.3	80	120			
Cadmium	24	0.10	25.00	0	94.3	80	120			
Chromium	23	0.30	25.00	0	91.3	80	120			

Sample ID: MB-65942	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 65942	RunNo: 86344								
Prep Date: 3/3/2022	Analysis Date: 3/8/2022	SeqNo: 3045353	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Silver	ND	0.50								
--------	----	------	--	--	--	--	--	--	--	--

Sample ID: LCS-65942	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 65942	RunNo: 86344								
Prep Date: 3/3/2022	Analysis Date: 3/8/2022	SeqNo: 3045355	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Silver	4.8	0.50	5.000	0	96.1	80	120			
--------	-----	------	-------	---	------	----	-----	--	--	--

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: MB-65671	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65671	RunNo: 86018								
Prep Date: 2/21/2022	Analysis Date: 2/22/2022	SeqNo: 3031019	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100								
Cadmium	ND	1.0								
Lead	ND	5.0								

Sample ID: LCS-65671	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65671	RunNo: 86018								
Prep Date: 2/21/2022	Analysis Date: 2/22/2022	SeqNo: 3031021	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	100	0.5000	0	96.6	80	120			
Cadmium	ND	1.0	0.5000	0	98.4	80	120			
Lead	ND	5.0	0.5000	0	95.4	80	120			

Sample ID: MB-65671	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65671	RunNo: 86061								
Prep Date: 2/21/2022	Analysis Date: 2/23/2022	SeqNo: 3032252	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0								
Chromium	ND	5.0								
Selenium	ND	1.0								

Sample ID: LCS-65671	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65671	RunNo: 86061								
Prep Date: 2/21/2022	Analysis Date: 2/23/2022	SeqNo: 3032254	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0	0.5000	0	108	80	120			
Chromium	ND	5.0	0.5000	0	98.3	80	120			
Selenium	ND	1.0	0.5000	0	114	80	120			

Sample ID: MB-65671	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 65671	RunNo: 86068								
Prep Date: 2/21/2022	Analysis Date: 2/24/2022	SeqNo: 3032637	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Silver	ND	5.0								
--------	----	-----	--	--	--	--	--	--	--	--

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: LCSLL-65671	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65671	RunNo: 86068								
Prep Date: 2/21/2022	Analysis Date: 2/24/2022	SeqNo: 3032638	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	5.0	0.1000	0	5.52	80	120			S

Sample ID: LCS-65671	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 65671	RunNo: 86068								
Prep Date: 2/21/2022	Analysis Date: 2/24/2022	SeqNo: 3032639	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	5.0	0.1000	0	112	80	120			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202502

10-Mar-22

Client: Intera, Inc.
Project: Data Gap Well

Sample ID: 2202502-001BDUP	SampType: DUP	TestCode: SM4500H+B/EPA 9040C								
Client ID: WUABFFMW01-RO-	Batch ID: R85776	RunNo: 85776								
Prep Date:	Analysis Date: 2/11/2022	SeqNo: 3020105 Units: pH Units								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	8.81									

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Sample Log-In Check List

Client Name: **Intera, Inc.**

Work Order Number: **2202502**

RcptNo: **1**

Received By: **Desiree Dominguez**

2/9/2022 12:30:00 PM

DD

Completed By: **Cheyenne Cason**

2/10/2022 10:51:16 AM

CC

Reviewed By: **DAD 2-10-22**

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH:
 (≤2 or >12 unless noted)
 Adjusted?
 Checked by *CC* 2/10/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Not Present			

Austin Hanson

From: Austin Hanson
Sent: Tuesday, February 08, 2022 12:03
To: Andy Freeman; Sample Control
Cc: Joseph J. Tracy
Subject: Bottle Kit Request

Hi Andy,

I am requesting an additional soil IDW bottle kit for the Data Gap Well project we are working on for the Water Utility Authority.

I will stop by to pick this up on Friday afternoon (2.11.22):

Soil IDW Kit

- 1 x VOCs-SW5035A/8260C
- 1 x SVOCs-SW3546/8270D
- 1 x EDB-SW8011
 - Since these soil IDW samples will be sitting out for weeks, the methanol extraction in the field is unnecessary
- 1 x Metals-SW6010C
- 1 x Mercury-SW7471B
- 1 x Ignitability-SW1020A
- 1 x pH-SW9045C
- 1 x Cyanide, Total and/or Amenable-SW9012B
- 1 x Pesticides-SW3546/8081B
- 1 x Herbicides-SW3550C/8151A
- 1 x Toxicity characteristic leaching procedure-SW1311
 - Even though we are already analyzing for Pesticides and Herbicides via different methods, please run the full TCLIP 1311 analysis (volatiles [ZHE], metals, semivolatiles, pesticides, and herbicides)
- Cooler
- Trip blank for relevant analyses

Cheers and thanks,

Austin Hanson | Geologist | 484.264.3095



2440 Louisiana Blvd. NE, Suite 700

Albuquerque, NM 87110

505.246.1600

www.INTERA.com

This message may be subject to client privilege or contain confidential information or client work product. Unless you are the addressee, or are authorized to receive for the addressee, you may not use, copy, or disclose to anyone the message or any information contained in the message. If you have received this message in error, please advise the sender by reply email and delete the message. Thank you.

RECEIVED APR 04 2022

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility

Shipment No 084536

Mailing Address:

Physical Address:

Physical Address:

P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

1132 Carpenter St. NE
Rio Rancho, NM 87144
SWM #231402

1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 105178NM

1. Generator's work site name and address Albuquerque Bernalillo County Water Utility Au 1 Civic Plaza NW Albuquerque NM 87103		
2. Generator's name and address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103		Generator's Telephone no. 505 289-3008
3. Authorized Agent's name and mailing address (if different from #2) Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen. NM 87002		Agent's Telephone no. (505) 861-1700
4. Proper name and type of waste Non-RCRA Regulated, Non-DOT Hazardous Drill Cutting	5. Containers No. Type 001 DT	6. Total quantity (yd3) (tons) 00010 Y 8.25 tons
7. Special handling instructions: 1)(S) AES Profile # 105178NM WMI PO # P13788		
8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.		
Generator's or Authorized Agent's printed/typed name Douglas Koshan for ABCWUA	Signature 	Month / Day / Year 3 / 18 / 22
9. Transporter 1 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no. PG Enterprises 301 Murry SE Albuquerque NM 87105	Signature 	Month / Day / Year 3 / 22 / 2022
10. Transporter 2 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no.	Signature	Month / Day / Year / /
11. Discrepancy indication space DB		
12. Waste disposal site location coordinates N3443289 W10702360 Elev 5495		
Received By (printed/typed name): Doris Gilman	Signature 	Month / Day / Year 3 / 22 / 22



VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 123297
Ph: 505-917-6232

Customer: ADVANCED ENVIRONMENTAL Carrier: PG ENTERPRISES PG ENTERPRISES
Ticket Date: 03/22/2022 Vehicle#: 30 Volume:
Payment Type: Credit Account Container:
Manual Ticket#: Driver:
Route: Check#: 0000017
Hauling Ticket#: Billing#: 0000017
Destination:
PO#: P13788

TIME	SCALE	OPERATOR	Gross:	49220 lb
In: 03/22/2022 13:49:57	Inbound	dgilman1	Tare:	32720 lb
Out: 03/22/2022 14:51:04	outbound	dgilman1	Net:	16500 lb
			Tons:	8.25

Comments:

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons-Cont. So100		8.25	Tons				ALBUQ
2 EVF-P-Standard Environmental100			%				ALBUQ
3 FUEL-Fuel Surcharge - Landf100			%				ALBUQ
4 RCR-P-Regulatory Cost Recov100			%				ALBUQ
5 WWM-P-Waste Water Managemen100			%				ALBUQ

Total Tax
Total Ticket

Driver's
Signature:
084536

Edward

ADVANCED ENVIRONMENTAL

BIN 0461 Sealed container

RECEIVED APR 04 2022

505-917-6232 - Scalhouse
Doris

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility

Shipment No 084537

Mailing Address:

Physical Address:

Physical Address:

P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

1132 Carpenter St. NE
Rio Rancho, NM 87144
SWM #231402

1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 105178NM

1. Generator's work site name and address Albuquerque Bernalillo County Water Utility Au 1 Civic Plaza NW Albuquerque NM 87103		
2. Generator's name and address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103		Generator's Telephone no. 505 289-3008
3. Authorized Agent's name and mailing address (if different from #2) Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen. NM 87002		Agent's Telephone no. (505) 861-1700
4. Proper name and type of waste Non RCRA Regulated, Non DOT Hazardous Drill Cutting	5. Containers No. Type 001 DT	6. Total quantity (yd3) (tons) 00010 Y 7.91 tons
7. Special handling instructions: 1(S) AES Profile # 105178NM WMI PO # P13788		
8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.		
Generator's or Authorized Agent's printed/typed name Douglas Koshan for ABEWUA	Signature 	Month / Day / Year 3 / 18 / 22
9. Transporter 1 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no. PG Enterprises 301 Murry SE Albuquerque NM 87105	Signature 	Month / Day / Year 3 / 22 / 2022
10. Transporter 2 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no.	Signature	Month / Day / Year / /
11. Discrepancy indication space		
12. Waste disposal site location coordinates N3443 289 W10702 360 Elev 5495		
Received By (printed/typed name): Doris Gilman	Signature 	Month / Day / Year 3 / 22 / 22



VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 123259
Ph: 505-917-6232

Customer: ADVANCED ENVIRONMENTAL SERVICES
Ticket Date: 03/22/2022
Payment Type: Credit Account
Manual Ticket#:
Route:
Hauling Ticket#:
Destination:
PO#: P13788

Carrier: PG ENTERPRISES
Vehicle#: 030
Container: PG ENTERPRISES
Driver:
Check#:
Billing#: 0000017
Volume:

	TIME	SCALE	OPERATOR	Gross:	48900 lb
In:	03/22/2022 10:53:05	Inbound	dgilman1	Tare:	33080 lb
Out:	03/22/2022 11:44:23	outbound	dgilman1	Net:	15820 lb
				Tons:	7.91

Comments:

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons-Cont. Sol	100	7.91	Tons				ALBUQ
2 EVF-P-Standard Environmental	100		%				ALBUQ
3 FUEL-Fuel Surcharge - Landf	100		%				ALBUQ
4 RCR-P-Regulatory Cost Recovl	100		%				ALBUQ
5 WWM-P-Waste Water Managemen	100		%				ALBUQ

Total Tax
Total Ticket

Driver's
Signature:
084537

Edward

DB

PO# 105178NM

M# 084537

RECEIVED APR 18 2022

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility

Shipment No 084539

Mailing Address:

P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

Physical Address:

1132 Carpenter St. NE
Rio Rancho, NM 87144
SWM #231402

Physical Address:

1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 105178NM

1. Generator's work site name and address Albuquerque Bernalillo County Water Utility Au. 1 Civic Plaza NW Albuquerque NM 87103		
2. Generator's name and address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103		Generator's Telephone no. 505 289-3008
3. Authorized Agent's name and mailing address (if different from #2) Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen. NM 87002		Agent's Telephone no. (505) 861-1700
4. Proper name and type of waste Non RCRA Regulated, Non-DOT Hazardous - Drill Cutting	5. Containers No. Type 001 DT	6. Total quantity (yd3) (tons) 00010 Y 5.56 tons
7. Special handling instructions: 1)(S) AES Profile # 105178NM WMI PO # P13788		
8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.		
Generator's or Authorized Agent's printed/typed name Doug Roshan	Signature 	Month / Day / Year / /
9. Transporter 1 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no. PG Enterprises 301 Murry SE Albuquerque NM 87105	Signature Name: Allan Vigil	Month / Day / Year 4, 5, 22
10. Transporter 2 (Acknowledgement of receipt of materials)		
Printed/typed name, address, telephone no.	Signature	Month / Day / Year
	Name:	/ /
11. Discrepancy indication space		
12. Waste disposal site location coordinates N3443304 W10702357 Elev 5570		
Received By (printed/typed name): Doris Gilman	Signature 	Month / Day / Year 4 5 22



VALENCIA REGIONAL LANDFILL
 1600 HIGHWAY 6
 LOS LUNAS, NM, 87507

Original
 Ticket# 123643
 Ph: 505-917-6232

Customer: ADVANCED ENVIRONMENTAL Carrier: PG ENTERPRISES PG ENTERPRISES
 Ticket Date: 04/05/2022 Vehicle#: 067 Volume:
 Payment Type: Credit Account Container:
 Manual Ticket#: Driver:
 Route: Check#: 0000017
 Hauling Ticket#: Billing#: 0000017
 Destination:
 PO#: P13788

TIME	SCALE	OPERATOR	Gross:	45320 lb
In: 04/05/2022 11:58:59	Inbound	dgilman1	Tare:	34200 lb
Out: 04/05/2022 13:00:12	outbound	dgilman1	Net:	11120 lb
			Tons:	5.56

Comments:


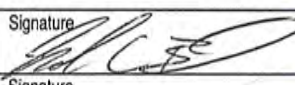

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons-Cont. Sol100		5.56	Tons				BERC
2 EVF-P-Standard Environmental100			%				BERC
3 FUEL-Fuel Surcharge - Landf100			%				BERC
4 RCR-P-Regulatory Cost Recov100			%				BERC
5 WWM-P-Waste Water Managemen100			%				BERC

Total Tax
 Total Ticket

Driver's
 Signature:
 084539

Allan

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)


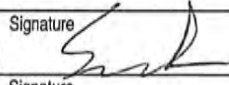
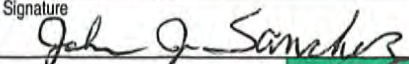
NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 1 3 7 8 8 - 4	
5. Generator's Name and Mailing Address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103 Generator's Phone: 505 289-3008					
6. Transporter 1 Company Name Advanced Environmental Solutions, Inc.			U.S. EPA ID Number NMR000006502		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002 Facility's Phone: 505 861-1700			U.S. EPA ID Number NMR000006502		
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	Non RCRA Regulated, Non DOT Hazardous Water - Pending Analysis	No.	Type		
		3	TP	800	G
	2.				
	3.				
13. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 3 x 275g Poly TOTE NON-HAZ 9.1) A9702-A9704					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. JOB# 113788					
Generator's/Offoror's Printed/Typed Name Doug Roshan for ABCWA			Signature 		Month Day Year 4 8 22
15. International Shipments	<input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Leonard Barea			Signature 		Month Day Year 4 8 22
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name JOHN J. SANCHEZ			Signature 		Month Day Year 4 8 22

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 1 3 7 8 8 - 5	
5. Generator's Name and Mailing Address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103 Generator's Phone: 505 289-3008					
6. Transporter 1 Company Name Advanced Environmental Solutions, Inc.			U.S. EPA ID Number NMR000006502		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002 Facility's Phone: 505 861-1700			U.S. EPA ID Number NMR000006502		
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
	Non RCRA Regulated, Non DOT Hazardous Water - Pending Analysis	5	TP	1375	G
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 5x275g Poly TOTE NON-HAZ 9.1)A9705-A9709 JOB# J13788					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offoror's Printed/Typed Name Brian Archuleta		Signature <i>B. Archuleta</i>		Month Day Year 4 11 22	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Chris Rael		Signature <i>Chris Rael</i>		Month Day Year 4 11 22	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Chris Rael		Signature <i>Chris Rael</i>		Month Day Year 4 11 22	



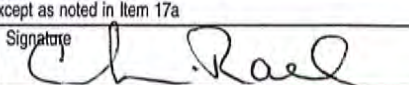
Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 13788-0698
5. Albuquerque-Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103 505 289-3008 Generator's Phone:					
6. Advanced Environmental Solutions, Inc. Generator's Site Address (if different than mailing address)				U.S. EPA ID Number NMR000006502	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002 505 861-1700 Facility's Phone:				U.S. EPA ID Number NMR000006502	
GENERATOR	9. Waste Shipping Name and Description Non RCRA Regulated, Non DOT Hazardous Water - Pending Analysis		10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
			5	TP	1375 G
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 5x275g Poly TOTE NON-HAZ 9.1) A9710-A9714 JOB# J13788					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offero's Printed/Typed Name Brian Archuleta				Signature <i>[Signature]</i>	
				Month Day Year 4 12 22	
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	16. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Chris Rael				Signature <i>[Signature]</i>	
Transporter 2 Printed/Typed Name				Month Day Year 4 12 22	
				Month Day Year	
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
	17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____				
	Facility's Phone: _____				
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Chris Rael				Signature <i>[Signature]</i>	
				Month Day Year 4 12 22	

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 98 1 3 7 8 8 - 0 7	
5. Generator's Name and Mailing Address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103					
Generator's Phone: 505 289-3008			Att: Diane Agnew Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name Advanced Environmental Solutions, Inc.			U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002			U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2		
Facility's Phone: 505 861-1700					
9. Waste Shipping Name and Description		10. Containers		11. Total	12. Unit
		No.	Type	Quantity	Wt./Vol.
1. Non RCRA Regulated, Non DOT Hazardous Water - Pending Analysis		5	TP	11,375	G
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 5x275g Poly TOTE					
NON-HAZ 9/1A9715-A9719					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. JOB# 113788					
Generator's/Offor's Printed/Typed Name Brian Archuleta		Signature 		Month Day Year 4 13 22	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name ERNEST LOPEZ		Signature 		Month Day Year 4 13 22	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					
17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name JOHN J. SANCHEZ		Signature 		Month Day Year 4 13 22	

Please print or type
(Form designed for use on alite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 1 3 7 8 8 - 8	
5. Generator's Name and Mailing Address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103 Generator's Phone: 505 289-3008					
6. Transporter 1 Company Name Advanced Environmental Solutions, Inc. U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2					
7. Transporter 2 Company Name U.S. EPA ID Number					
8. Designated Facility Name and Site Address Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002 Facility's Phone: 505 861-1700 U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2					
9. Waste Shipping Name and Description Non RCRA Regulated, Non DOT Hazardous Water - Pending Analysis		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
		1	TP	220 175	G
3. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 1x275g Poly To TE NON-HAZ Q.D) A9755		JOB# J13788			
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name Brian Archuleta		Signature 		Month Day Year 5 27 22	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Brian Archuleta		Signature 		Month Day Year 5 27 22	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Chris Raec		Signature 		Month Day Year 5 27 22	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-861-1700	4. Waste Tracking Number 1 3 7 8 8 - 1 0	
5. Generator's Name and Mailing Address Albuquerque Bernalillo County Water Utility Authority 1 Civic Plaza NW Albuquerque NM 87103 Generator's Phone: 505 289-3008					
6. Transporter 1 Company Name Advanced Environmental Solutions, Inc.			U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Advanced Environmental Solutions, Inc. 2318 Roldan Drive Belen NM 87002 Facility's Phone: 505 861-1700			U.S. EPA ID Number N M R 0 0 0 0 0 6 5 0 2		
GENERATOR	9. Waste Shipping Name and Description Non RCRA Regulated, Non DOT Hazardous Water	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
		0 0 1	TP	185	G
	2.				
	3.				
4.					
13. Special Handling Instructions and Additional Information 1)(L) AES Profile # AES1005 1X 275gal Poly TOTE NON-HAZ 9.1) A9858					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. JOB# J13788					
Generator's/Offor's Printed/Typed Name ON BEHALF of ABCWUA Signature John J. Sanchez Month 9 Day 2 Year 22					
INT'L	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	16. Transporter Acknowledgment of Receipt of Materials				
TRANSPORTER	Transporter 1 Printed/Typed Name EMANUEL LOPEZ Signature _____ Month 9 Day 2 Year 22		Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____		
	17. Discrepancy				
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____					
DESIGNATED FACILITY	17b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____		Facility's Phone: _____		
	17c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____				
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Ch. Paul Signature Ch. Paul Month 9 Day 12 Year 22				