LABORATORY DATA CONSULTANTS, INC.
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AECOM
1001 Bishop Street Suite 1600
Honolulu, HI 96813
ATTN: Ms. Margie Pascua
Margie.Pascua@aecom.com

March 25, 2021

SUBJECT: Red Hill Bulk Storage Facility, CTO 18F0126, Data Validation

Dear Ms. Pascua,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on March 3, 2021. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #50581:

SDG #	Fraction
94912	Volatiles, Semivolatiles, Lead, Dissolved Organic Carbon, Total Petroleum Hydrocarbons as Extractables

The data validation was performed under Level C & D validation guidelines. The analyses were validated using the following documents and variances, as applicable to each method:

- Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; Revision 02, January 2017
- Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; Revision 01, April 2017
- Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; Revision 00, September 2017
- Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; Revision 00, June 2018
- Project Procedures Manual U.S. Naval Facilities Engineering Command Environmental Restoration Program, NAVFAC Pacific; DON 2015
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.1; 2017

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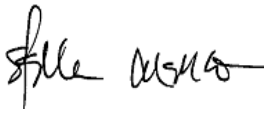
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,



Stella Cuenco
scuenco@lab-data.com
Operations Manager/Senior Chemist

56 pages-DL R1 (added Semivolatiles) Attachment 1

90/10 2B/4 EDD

LDC #50581 (AECOM-Honolulu, HI / Red Hill Bulk Storage Facility, CTO 18F0126)

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (524.2)		SVOA (525.2)		Pb (200.8)		TPH-E (8015B)		DOC (9060A)																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	94912	03/03/21	03/17/21	2	0	2	0	2	0	4	0	2	0																				
Total	T/J/SC			2	0	2	0	2	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

Shaded cells indicate Level D validation (all other cells are Level C validation). These sample counts do not include MS/MSD, and DUPs

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Red Hill Bulk Storage Facility, CTO 18F0126

LDC Report Date: March 15, 2021

Parameters: Volatiles

Validation Level: Level C

Laboratory: APPL, Inc.

Sample Delivery Group (SDG): 94912

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
ERH1256	BA26019	Water	01/26/21
ERH1257	BA26020	Water	01/26/21

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 02, January 2017), the Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 01, April 2017), the Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, September 2017), the Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, June 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 524.2

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level C validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level C validation.

XIV. System Performance

Raw data were not reviewed for Level C validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Red Hill Bulk Storage Facility, CTO 18F0126
Volatiles - Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Volatiles - Laboratory Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Volatiles - Field Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

LDC #: 50581A1a
SDG #: 94912
Laboratory: APPL, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level C

Date: 03/10/21
Page: 1 of 1
Reviewer: LT
2nd Reviewer: A

METHOD: GC/MS Volatiles (EPA Method 524.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / A	RSD≤ 20%. r^2 ICV≤ 30%.
IV.	Continuing calibration (endings)	A	CCV≤ 30/50%.
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	A	LCS(D)
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ERH1256	BA26019	Water	01/26/21
2	ERH1257	BA26020	Water	01/26/21
3				
4				
5				
6				
7				
8				
9				

Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Red Hill Bulk Storage Facility, CTO 18F0126

LDC Report Date: March 18, 2021

Parameters: Semivolatiles

Validation Level: Level C

Laboratory: APPL, Inc./Weck Laboratories, Inc.

Sample Delivery Group (SDG): 94912/1A28043

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
ERH1256	BA26019/1A28043-01	Water	01/26/21
ERH1257	BA26020/1A28043-02	Water	01/26/21

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 02, January 2017), the Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 01, April 2017), the Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, September 2017), the Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, June 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Semivolatile Organic Compounds (SVOCs) by Environmental Protection Agency (EPA) Method 525.2

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
ERH1256 ERH1257	All compounds	14	7	UJ (all non-detects)	P

II. GC/MS Instrument Performance Check

A decafluorotriphenylphosphine (DFTPP) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, percent relative standard deviations (%RSD) were less than or equal to 30.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/03/21	2,6-Dinitrotoluene 2,4-Dinitrotoluene	62.75 49.55	All samples in SDG 94912/1A28043	UJ (all non-detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
02/11/21 (GCMS16_02112105)	Pentachlorophenol	48.21	All samples in SDG 94912/1A28043	UJ (all non-detects)	A
02/11/21 (GCMS16_02112106)	Terbacil Butachlor Ethion	32.19 34.69 48.68	All samples in SDG 94912/1A28043	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A
02/11/21 (GCMS16_02112107)	Trifuralin	54.74	All samples in SDG 94912/1A28043	UJ (all non-detects)	A
02/11/21 (GCMS16_02112109)	2,6-Dinitrotoluene 2,4-Dinitrotoluene	56.50 51.74	All samples in SDG 94912/1A28043	UJ (all non-detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within validation criteria.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

IX. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method with the following exceptions:

LCS ID	Compound	Finding	Associated Samples	Flag	A or P
W1B0571-BS1/BSD1	4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Endrin ketone gamma-BHC gamma-Chlordane Heptachlor Heptachlor epoxide Methoxychlor	The laboratory indicated that these compounds were not spiked in the LCS mix analyzed for this SDG.	All samples in SDG 94912/1A28043	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Flag	A or P
W1B0571-BS1/BSD1 (All samples in SDG 94912/1A28043)	Cyanazine Terbacil Trithion	- - -	54 (70-130) 16 (70-130) 68 (70-130)	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P
W1B0571-BS2/BSD2 (All samples in SDG 94912/1A28043)	Propachlor	136 (70-130)	135 (70-130)	NA	-

Relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
W1B0571-BS1/BSD1 (All samples in SDG 94912/1A28043)	Captan Cyanazine Dimethoate Pentachlorophenol Terbacil Trithion	33 (≤30) 54 (≤30) 49 (≤30) 32 (≤30) 138 (≤30) 35 (≤30)	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Internal Standards

All internal standard areas and retention times were within QC limits.

XII. Compound Quantitation

Raw data were not reviewed for Level C validation.

XIII. Target Compound Identifications

Raw data were not reviewed for Level C validation.

XIV. System Performance

Raw data were not reviewed for Level C validation.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

Due to technical holding time, ICV %D, continuing calibration %D, LCS not spiked, and LCS/LCSD %R and RPD, data were qualified as estimated in two samples.

No results were rejected in this SDG.

Red Hill Bulk Storage Facility, CTO 18F0126
Semivolatiles - Data Qualification Summary - SDG 94912/1A28043

Sample	Compound	Flag	A or P	Reason
ERH1256 ERH1257	All compounds	UJ (all non-detects)	P	Technical holding times (H)
ERH1256 ERH1257	2,6-Dinitrotoluene 2,4-Dinitrotoluene	UJ (all non-detects) UJ (all non-detects)	A	Initial calibration verification (%D) (C)
ERH1256 ERH1257	Pentachlorophenol Terbacil Butachlor Ethion Trifuralin 2,6-Dinitrotoluene 2,4-Dinitrotoluene	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
ERH1256 ERH1257	4,4'-DDD 4,4'-DDE 4,4'-DDT Aldrin alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Endrin ketone gamma-BHC gamma-Chlordane Heptachlor Heptachlor epoxide Methoxychlor	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Laboratory control samples (not spiked) (V)
ERH1256 ERH1257	Cyanazine Terbacil Trithion	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
ERH1256 ERH1257	Captan Cyanazine Dimethoate Pentachlorophenol Terbacil Trithion	UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects) UJ (all non-detects)	P	Laboratory control samples (RPD) (L)

Red Hill Bulk Storage Facility, CTO 18F0126
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 94912/1A28043

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Semivolatiles - Field Blank Data Qualification Summary - SDG 94912/1A28043

No Sample Data Qualified in this SDG

LDC #: 50581A2a **VALIDATION COMPLETENESS WORKSHEET** Date: 03/19/21
SDG #: 94912/1A28043 Stage 2B Page: 1 of 1
Laboratory: APPL, Inc./Weck Laboratories, Inc. Reviewer: VS
2nd Reviewer: AC

METHOD: GC/MS Semivolatiles (EPA Method 525.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / SW	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / SW	RSD ≤ 30%. r^2 ICV ≤ 30%.
IV.	Continuing calibration	SW	CCV ≤ 30%.
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	
IX.	Laboratory control samples	SW	LCS ID
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Target compound identification	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	SUB VAO ID	Lab ID	Matrix	Date
1	ERH1256	1A28043-01	BA26019	Water	01/26/21
2	ERH1257	↓ -02	BA26020	Water	01/26/21
3					
4					
5					
6					
7					
8					
9					

Notes:

1	WIB0571-BLK						

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS SVOA

A. Phenol	CC. Dimethylphthalate	EEE. Bis(2-ethylhexyl)phthalate	GGGG. C30-Hopane	I1. Methyl methanesulfonate
B. Bis (2-chloroethyl) ether	DD. Acenaphthylene	FFF. Di-n-octylphthalate	HHHH. 1-Methylphenanthrene	J1. Ethyl methanesulfonate
C. 2-Chlorophenol	EE. 2,6-Dinitrotoluene	GGG. Benzo(b)fluoranthene	IIII. 1,4-Dioxane	K1. o,o',o''-Triethylphosphorothioate
D. 1,3-Dichlorobenzene	FF. 3-Nitroaniline	HHH. Benzo(k)fluoranthene	JJJJ. Acetophenone	L1. n-Phenylene diamine
E. 1,4-Dichlorobenzene	GG. Acenaphthene	III. Benzo(a)pyrene	KKKK. Atrazine	M1. 1,4-Naphthoquinone
F. 1,2-Dichlorobenzene	HH. 2,4-Dinitrophenol	JJJ. Indeno(1,2,3-cd)pyrene	LLLL. Benzaldehyde	N1. N-Nitro-o-toluidine
G. 2-Methylphenol	II. 4-Nitrophenol	KKK. Dibenz(a,h)anthracene	MMMM. Caprolactam	O1. 1,3,5-Trinitrobenzene
H. 2,2'-Oxybis(1-chloropropane)	JJ. Dibenzofuran	LLL. Benzo(g,h,i)perylene	NNNN. 2,6-Dichlorophenol	P1. Pentachlorobenzene
I. 4-Methylphenol	KK. 2,4-Dinitrotoluene	MMM. Bis(2-Chloroisopropyl)ether	OOOO. 1,2-Diphenylhydrazine	Q1. 4-Aminobiphenyl
J. N-Nitroso-di-n-propylamine	LL. Diethylphthalate	NNN. Aniline	PPPP. 3-Methylphenol	R1. 2-Naphthylamine
K. Hexachloroethane	MM. 4-Chlorophenyl-phenyl ether	OOO. N-Nitrosodimethylamine	QQQQ. 3&4-Methylphenol	S1. Triphenylene
L. Nitrobenzene	NN. Fluorene	PPP. Benzoic Acid	RRRR. 4-Dimethyldibenzothiophene (4MDT)	T1. Octachlorostyrene
M. Isophorone	OO. 4-Nitroaniline	QQQ. Benzyl alcohol	SSSS. 2/3-Dimethyldibenzothiophene (4MDT)	U1. Famphur
N. 2-Nitrophenol	PP. 4,6-Dinitro-2-methylphenol	RRR. Pyridine	TTTT. 1-Methyldibenzothiophene (1MDT)	V1. 1,4-phenylenediamine
O. 2,4-Dimethylphenol	QQ. N-Nitrosodiphenylamine	SSS. Benzidine	UUUU.. 2,3,4,6-Tetrachlorophenol	W1. Methapyrilene
P. Bis(2-chloroethoxy)methane	RR. 4-Bromophenyl-phenylether	TTT. 1-Methylnaphthalene	VVVV. 1,2,4,5-Tetrachlorobenzene	X1. Pentachloroethane
Q. 2,4-Dichlorophenol	SS. Hexachlorobenzene	UUU.Benzo(b)thiophene	WWWW.. 2-Picoline	Y1. 3,3'-Dimethylbenzidine
R. 1,2,4-Trichlorobenzene	TT. Pentachlorophenol	VVV.Benzonaphthothiophene	XXXX. 3-Methylcholanthrene	Z1. o-Toluidine
S. Naphthalene	UU. Phenanthrene	WWW.Benzo(e)pyrene	YYYY. a,a-Dimethylphenethylamine	A2. 1-Naphthylamine
T. 4-Chloroaniline	VV. Anthracene	XXX. 2,6-Dimethylnaphthalene	ZZZZ. Hexachloropropene	B2. 4-Aminobiphenyl
U. Hexachlorobutadiene	WW. Carbazole	YYY. 2,3,5-Trimethylnaphthalene	A1. N-Nitrosodiethylamine	C2. 4-Nitroquinoline-1-oxide
V. 4-Chloro-3-methylphenol	XX. Di-n-butylphthalate	ZZZ. Perylene	B1. N-Nitrosodi-n-butylamine	D2. Hexachloropene
W. 2-Methylnaphthalene	YY. Fluoranthene	AAAA. Dibenzothiophene	C1. N-Nitrosomethylethylamine	E2. Bis (2-chloro-1-methylethyl) ether
X. Hexachlorocyclopentadiene	ZZ. Pyrene	BBBB. Benzo(a)fluoranthene	D1. N-Nitrosomorpholine	F2. Bifenthrin
Y. 2,4,6-Trichlorophenol	AAA. Butylbenzylphthalate	CCCC. Benzo(b)fluorene	E1. N-Nitrosopyrrolidine	G2. Cyfluthrin
Z. 2,4,5-Trichlorophenol	BBB. 3,3'-Dichlorobenzidine	DDDD. cis/trans-Decalin	F1. Phenacetin	H2. Cypermethrin
AA. 2-Chloronaphthalene	CCC. Benzo(a)anthracene	EEEE. 1,1'-Biphenyl	G1. 2-Acetylaminofluorene	I2. Permethrin (cis/trans)
BB. 2-Nitroaniline	DDD. Chrysene	FFFF. Retene	H1. Pronamide	J2. 5-Nitro-o-toluidine

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticides

A. alpha-BHC	K. Endrin	U. Toxaphene	EE. 2,4'-DDT	OO. oxy-Chlordane
B. beta-BHC	L. Endosulfan II	V. Aroclor-1016	FF. Hexachlorobenzene	PP. cis-Nonachlor
C. delta-BHC	M. 4,4'-DDD	W. Aroclor-1221	GG. Chlordane	QQ. trans-Nonachlor
D. gamma-BHC	N. Endosulfan sulfate	X. Aroclor-1232	HH. Chlordane (Technical)	RR. cis-Chlordane
E. Heptachlor	O. 4,4'-DDT	Y. Aroclor-1242	II. p,p'-DDE	SS. trans-Chlordane
F. Aldrin	P. Methoxychlor	Z. Aroclor-1248	JJ. p,p'-DDD	TT. alpha-Endosulphan
G. Heptachlor epoxide	Q. Endrin ketone	AA. Aroclor-1254	KK. p,p'-DDT	UU. beta-Endosulphan
H. Endosulfan I	R. Endrin aldehyde	BB. Aroclor-1260	LL. o,p'-DDT	VV. Endosulphan Sulphate
I. Dieldrin	S. alpha-Chlordane	CC. 2,4'-DDD	MM. o,p'-DDE	WW. Mirex
J. 4,4'-DDE	T. gamma-Chlordane	DD. 2,4'-DDE	NN. o,p'-DDD	

Notes:_____

_____

LDC #: 50581A2a

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: LT

All circled dates have exceeded the technical holding times.
YES Were all cooler temperatures within validation criteria?

METHOD : GC/MS SVOA (EPA Method 525.2)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1,2 (ND)	W	N	01/26/21	02/09/21	02/12/21	14	J/UJ/P (H)

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 30 days.

LDC #: 50581A2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: LT

METHOD: GC/MS SVOA (EPA Method 525.2)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
YES Was an initial calibration verification standard analyzed after each ICAL for each instrument?
NO Were all %D within the validation criteria of ≤30 %D ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0%)	Associated Samples	Qualifications
	02/03/21	GCMS16_02032103	EE*	62.75	1,2 (ND)	J/UJ/A (C)
			KK*	49.55	↓	↓
			*Use SVOC codes			

LDC #: 50581A2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: LT

METHOD: GC/MS SVOA (EPA Method 525.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

YES Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?

NO Were all percent differences (%D) ≤30.0/50.0% ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤30.0/50.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	02/11/21	GCMS16_02112105	TT*	48.21		1,2 (ND)	J/UJ/A (C)
	02/11/21	GCMS16_02112106	Terbacil	32.19		1,2 (ND)	J/UJ/A (C)
			Butachlor	34.69		↓	↓
			Ethion	48.68		↓	↓
	02/11/21	GCMS16_02112107	Trifuralin	54.74		1,2 (ND)	J/UJ/A (C)
	02/11/21	GCMS16_02112109	EE*	56.50		1,2 (ND)	J/UJ/A (C)
			KK*	51.74		↓	↓
	02/12/21	GCMS16_02112122	FFF*	32.69		NONE	NQ per SOP IIC
	02/12/21	GCMS16_02112123	Dimethoate	32.49		↓	↓
			Terbacil	33.06		↓	↓
			Ethion	44.12		↓	↓
	02/12/21	GCMS16_02112124	Trifuralin	46.80		↓	↓
	02/12/21	GCMS16_02112126	EE*	47.84		↓	↓
			KK*	55.27		↓	↓
		*Use SVOC codes					
		**Use Pesticides codes					

LDC #: 50581A2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: LT

METHOD: GC/MS SVOA (EPA Method 525.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

YES Was a LCS analyzed for this SDG?

YES Was a LCS analyzed every 20 samples?

NO Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	Lab ID/Reference	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		W1B0571-BS1/BSD1	Cyanazine		54 (70 - 130)		1,2 (ND)	J/UJ/P
			Terbacil		16 (70 - 130)		↓	↓
			Trithion		68 (70- 130)		↓	↓
			Captan			33 (≤30)	↓	↓
			Cyanazine			54 (≤30)	↓	↓
			Dimethoate			49 (≤30)	↓	↓
			TT*			32 (≤30)	↓	↓
			Terbacil			138 (≤30)	↓	↓
			Trithion			35 (≤30)	↓	↓
			See attached **	Not spiked			1,2 (ND)	J/UJ/P
		W1B0571-BS2/BSD2	Propachlor	136 (70 - 130)	135 (70 - 130)		1,2 (ND)	J/P DETS
			*SVOA codes					
			**Pesticides Codes					

APPL, Inc.
908 N. Temperance Avenue
Clovis, CA 93611

Project Number: 94912

Project Manager: Libby Cheeseborough

Reported:
02/23/2021 10:35

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W1B0571 - EPA 525.2 (Continued)										
Blank (W1B0571-BLK1)				**Prepared: 02/09/21 Analyzed: 02/11/21**						
Surrogate(s)										
Triphenyl phosphate	*4.84*		*ug/l*	*5.00*		*97*	*70-130*			
LCS (W1B0571-BS1)				**Prepared: 02/09/21 Analyzed: 02/11/21**						
M 4,4'-DDD	ND	0.10	ug/l				70-130			
J 4,4'-DDE	ND	0.20	ug/l				70-130			
O 4,4'-DDT	ND	0.10	ug/l				70-130			
Acenaphthene	4.69	0.50	ug/l	5.00		94	70-130			
Acenaphthylene	5.36	0.50	ug/l	5.00		107	70-130			
Acetochlor	5.52	0.10	ug/l	5.00		110	70-130			
Alachlor	5.45	0.10	ug/l	5.00		109	70-130			
F Aldrin	ND	0.10	ug/l				70-130			
A alpha-BHC	ND	0.10	ug/l				70-130			
S alpha-Chlordane	ND	0.10	ug/l				70-130			
Anthracene	4.37	0.50	ug/l	5.00		87	70-130			
Atrazine	5.68	0.10	ug/l	5.00		114	70-130			
Benzo (a) anthracene	5.80	0.50	ug/l	5.00		116	70-130			
Benzo (a) pyrene	5.40	0.10	ug/l	5.00		108	60-130			
Benzo (b) fluoranthene	5.37	0.50	ug/l	5.00		107	70-130			AN-IP
Benzo (g,h,i) perylene	5.89	0.50	ug/l	5.00		118	40-160			
Benzo (k) fluoranthene	6.10	0.50	ug/l	5.00		122	70-130			AN-IP
B beta-BHC	ND	0.20	ug/l				70-130			
Bis(2-ethylhexyl)adipate	5.87	5.0	ug/l	5.00		117	70-130			
Bis(2-ethylhexyl)phthalate	6.04	3.0	ug/l	5.00		121	70-130			
Bromacil	5.15	0.50	ug/l	5.00		103	70-130			
Butachlor	6.11	0.10	ug/l	5.00		122	70-130			
Butyl benzyl phthalate	5.23	2.0	ug/l	5.00		105	70-130			
Caffeine	4.37	0.10	ug/l	5.00		87	50-120			
Captan	5.83	1.0	ug/l	5.00		117	70-130			
Chlorpropham	5.69	0.10	ug/l	5.00		114	70-130			
Chrysene	4.97	0.50	ug/l	5.00		99	70-130			
Cyanazine	4.47	0.10	ug/l	5.00		89	70-130			
C delta-BHC	ND	0.10	ug/l				70-130			
Diazinon	4.86	0.10	ug/l	5.00		97	50-120			
Dibenzo (a,h) anthracene	5.63	0.50	ug/l	5.00		113	50-150			
I Dieldrin	ND	0.20	ug/l				70-130			
Diethyl phthalate	5.53	2.0	ug/l	5.00		111	70-130			
Dimethoate	5.32	0.20	ug/l	5.00		106	50-120			
Dimethyl phthalate	5.39	2.0	ug/l	5.00		108	70-130			
Di-n-butyl phthalate	5.42	2.0	ug/l	5.00		108	70-130			

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Clovis, CA 93611

Project Number: 94912

Project Manager: Libby Cheeseborough

Reported:
02/23/2021 10:35

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W1B0571 - EPA 525.2 (Continued)										
LCS (W1B0571-BS1)				**Prepared: 02/09/21 Analyzed: 02/11/21**						
Di-n-octyl phthalate	5.13	0.50	ug/l	5.00		103	70-130			
Diphenamid	6.04	0.10	ug/l	5.00		121	70-130			
Disulfoton	4.80	0.10	ug/l	5.00		96	50-120			
# Endosulfan I	ND	1.0	ug/l				70-130			
L Endosulfan II	ND	0.20	ug/l				70-130			
V Endosulfan sulfate	ND	0.20	ug/l				70-130			
K Endrin	ND	0.20	ug/l				70-130			
R Endrin aldehyde	ND	0.20	ug/l				70-130			
Q Endrin ketone	ND	0.10	ug/l				70-130			
EPTC	5.31	0.10	ug/l	5.00		106	70-130			
Ethion	5.47	0.10	ug/l	5.00		109	70-130			
Fluoranthene	5.29	0.50	ug/l	5.00		106	70-130			
Fluorene	5.49	0.50	ug/l	5.00		110	70-130			
D gamma-BHC (Lindane)	ND	0.10	ug/l				70-130			
T gamma-Chlordane	ND	0.10	ug/l				70-130			
E Heptachlor	ND	0.10	ug/l				70-130			
G1 Heptachlor epoxide	ND	0.10	ug/l				70-130			
Hexachlorobenzene •	ND	0.10	ug/l				70-130			
Hexachlorocyclopentadiene •	ND	1.0	ug/l				33-106			
Indeno (1,2,3-cd) pyrene	5.59	0.50	ug/l	5.00		112	50-150			
P Methoxychlor	ND	0.20	ug/l				70-130			
Metolachlor	5.65	0.10	ug/l	5.00		113	60-130			
Metribuzin	5.05	0.10	ug/l	5.00		101	50-120			
Molinate	4.87	0.10	ug/l	5.00		97	70-130			
Naphthalene	4.87	0.50	ug/l	5.00		97	70-130			
Pentachloronitrobenzene (PCNB)	4.81	0.10	ug/l	5.00		96	70-130			
Pentachlorophenol	2.73	1.0	ug/l	5.00		55	50-120			
Phenanthrene	4.72	0.50	ug/l	5.00		94	70-130			
Prometon	3.22	0.10	ug/l	5.00		64	15-120			
Prometryn	3.85	0.10	ug/l	5.00		77	30-120			
Propachlor •	ND	0.20	ug/l				70-130			
Pyrene	5.21	0.50	ug/l	5.00		104	70-130			
Simazine	5.05	0.10	ug/l	5.00		101	60-130			
Terbacil	4.31	2.0	ug/l	5.00		86	70-130			
Thiobencarb	4.63	0.10	ug/l	5.00		93	70-130			
Trifluralin •	ND	0.10	ug/l				70-130			
Trithion	4.88	0.10	ug/l	5.00		98	70-130			
Surrogate(s)										
1,3-Dimethyl-2-nitrobenzene	*4.98*		*ug/l*	*5.00*		*100*	*70-130*			

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Red Hill Bulk Storage Facility, CTO 18F0126

LDC Report Date: March 15, 2021

Parameters: Lead

Validation Level: Level C

Laboratory: APPL, Inc.

Sample Delivery Group (SDG): 94912

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
ERH1256	BA26019	Water	01/26/21
ERH1257	BA26020	Water	01/26/21

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 02, January 2017), the Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 01, April 2017), the Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, September 2017), the Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, June 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Lead by Environmental Protection Agency (EPA) Method 200.8

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S The sequence or number of standards used for the calibration was incorrect.

C Correlation coefficient is <0.995.

R %R for calibration is not within control limits.

B Presumed contamination from preparation (method) blank or calibration blank.

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD or difference was high.

I ICP ICS results were unsatisfactory.

A ICP Serial Dilution %D were not within control limits.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Post Digestion Spike recovery was not within control limits.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

IX. Serial Dilution

Serial dilution was not performed for this SDG.

X. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

XIII. Sample Result Verification

Raw data were not reviewed for Level C validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Red Hill Bulk Storage Facility, CTO 18F0126
Lead - Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Lead - Laboratory Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Lead - Field Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

LDC #: 50581A4a
SDG #: 94912
Laboratory: APPL, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level C

Date: 3/9/21
Page: 1 of 1
Reviewer: ATV
2nd Reviewer: [illegible]

METHOD: Lead (EPA Method 200.8)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	A	
VI.	Field Blanks	N	
VII.	Matrix Spike/Matrix Spike Duplicates	N	CS
VIII.	Duplicate sample analysis	N	
IX.	Serial Dilution	N	
X.	Laboratory control samples	A	LCS/LCSD
XI.	Field Duplicates	N	
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	N	
XIV.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ERH1256	BA26019	Water	01/26/21
2	ERH1257	BA26020	Water	01/26/21
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

LDC Report# 50581A6

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Red Hill Bulk Storage Facility, CTO 18F0126

LDC Report Date: March 15, 2021

Parameters: Dissolved Organic Carbon

Validation Level: Level C

Laboratory: APPL, Inc.

Sample Delivery Group (SDG): 94912

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
ERH1256	BA26019	Water	01/26/21
ERH1257	BA26020	Water	01/26/21

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 02, January 2017), the Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 01, April 2017), the Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, September 2017), the Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, June 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Dissolved Organic Carbon by Standard Method 5310C

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S The sequence or number of standards used for the calibration was incorrect.

C Correlation coefficient is <0.995.

R %R for calibration is not within control limits.

B Presumed contamination from preparation (method) blank or calibration blank.

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD or difference was high.

I ICP ICS results were unsatisfactory.

A ICP Serial Dilution %D were not within control limits.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Post Digestion Spike recovery was not within control limits.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Initial Calibration

All criteria for the initial calibration were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

Raw data were not reviewed for Level C validation.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Red Hill Bulk Storage Facility, CTO 18F0126
Dissolved Organic Carbon - Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Dissolved Organic Carbon - Laboratory Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Dissolved Organic Carbon - Field Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

LDC #: 50581A6
SDG #: 94912
Laboratory: APPL, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level C

Date: 3/9/21
Page: 1 of 1
Reviewer: ATV
2nd Reviewer: AC

METHOD: (Analyte) DOC (EPA SW846 Method ~~9060A~~) SM5310C

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	C.S
VII.	Duplicate sample analysis	N	
VIII.	Laboratory control samples	A	LCS/LCSD
IX.	Field duplicates	N	
X.	Sample result verification	N	
XI.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ERH1256	BA26019	Water	01/26/21
2	ERH1257	BA26020	Water	01/26/21
3				
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Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Red Hill Bulk Storage Facility, CTO 18F0126

LDC Report Date: March 15, 2021

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: Level C

Laboratory: APPL, Inc.

Sample Delivery Group (SDG): 94912

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
ERH1256	BA26019	Water	01/26/21
ERH1256RE	BA26019RE	Water	01/26/21
ERH1257	BA26020	Water	01/26/21
ERH1257RE	BA26020RE	Water	01/26/21

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 02, January 2017), the Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 01, April 2017), the Sampling and Analysis Plan, Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, September 2017), the Sampling and Analysis Plan, Addendum 03, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i (Revision 00, June 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Total Petroleum Hydrocarbons (TPH) as Extractables by Environmental Protection Agency (EPA) SW 846 Method 8015B

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered not detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
ERH1256RE ERH1257RE	All compounds	23	14	UJ (all non-detects)	A

II. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average calibration factors were utilized, percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Compound Quantitation

Raw data were not reviewed for Level C validation.

XI. Target Compound Identifications

Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

In the case where more than one result was reported for an individual sample, the least technically acceptable results were deemed unusable as follows:

Sample	Compound	Finding	Flag	A or P
ERH1256RE ERH1257RE	C10-C25	Extracted outside of holding time.	R	A
ERH1256 ERH1257	C8-C18	Results from re-extraction were more usable.	R	A

Due to technical holding time, data were qualified as estimated in two samples.

Red Hill Bulk Storage Facility, CTO 18F0126
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 94912

Sample	Compound	Flag	A or P	Reason (Code)
ERH1256RE ERH1257RE	C8-C18	UJ (all non-detects)	A	Technical holding times (H)
ERH1256RE ERH1257RE	C10-C25	R	A	Overall assessment of data (D)
ERH1256 ERH1257	C8-C18	R	A	Overall assessment of data (D)

Red Hill Bulk Storage Facility, CTO 18F0126
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

Red Hill Bulk Storage Facility, CTO 18F0126
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG 94912

No Sample Data Qualified in this SDG

LDC #: 50581A8
SDG #: 94912
Laboratory: APPL, Inc.

VALIDATION COMPLETENESS WORKSHEET
Level C

Date: 03/10/21
Page: 1 of 1
Reviewer: LT
2nd Reviewer: AC

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, SW	
II.	Initial calibration/ICV	A, A	RSD ≤ 20%. r² ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	N	
X.	Compound quantitation RL/LOQ/LODs	N	
XI.	Target compound identification	N	
XII	Overall assessment of data	SW	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ERH1256	BA26019	Water	01/26/21
2	ERH1256RE	BA26019RX	Water	01/26/21
3	ERH1257	BA26020	Water	01/26/21
4	ERH1257RE	BA26020RX	Water	01/26/21
5				
6				
7				
8				
9				
10				
11				
12				

Notes:

1	210201A-BLC						
2	210218A- ↓						

LDC #: 50581A8

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: LT

All circled dates have exceeded the technical holding times.
Y x N N/A Were all cooler temperatures within validation criteria?

METHOD: x GC HPLC

Sample ID	Matrix	Preserved	Sampling Date	14-Day HT Extraction date	Analysis date	Total # of Days	Qualifier
2,4 (ND)	W	Y	01/26/21	02/18/21	02/19/21	23	J/UJ/A (H)

TECHNICAL HOLDING TIME CRITERIA

VOLATILES:
- Water unpreserved: Aromatic within 7 days, non-aromatic within 14 days of sample collection.
- Water preserved: Both within 14 days of sample collection.
- Soils: Both within 14 days of sample collection.

EXTRACTABLES:
- Water: Extracted within 7 days, analyzed within 40 days.
- Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 50581A8

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Reviewer: LT

METHOD: X GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Yes Was the overall quality and usability of the data acceptable?

#	Compound Name	Finding	Associated Samples	Qualifications
	C10-C25	exceeded holding time	2,4	R (D)
	C8-C18	possible contamination, reanalysis more useable	1,3	R (D)

Comments: _____

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **200.8**													
ERH1256	BA26019	1	LEAD	1/26/2021 8:45:00 AM	2/1/2021 5:20:00 PM	C	0.090	UG_L	J	0.2	0.18	J	
ERH1257	BA26020	1	LEAD	1/26/2021 9:10:00 AM	2/1/2021 5:27:00 PM	C	0.33	UG_L		0.2	0.18		
METHOD: **524.2**													
ERH1256	BA26019	1	1,1,1,2-TETRACHLORO ETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	1,1,1-TRICHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	1,1,2,2-TETRACHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.04	UG_L	U	0.5	0.04	U	
ERH1256	BA26019	1	1,1,2-TRICHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.32	UG_L	U	0.5	0.32	U	
ERH1256	BA26019	1	1,1-DICHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1256	BA26019	1	1,1-DICHLOROETHENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	1,1-DICHLOROPROPENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	1,2,3-TRICHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	1,2,3-TRICHLOROPROPANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.36	UG_L	U	0.5	0.36	U	
ERH1256	BA26019	1	1,2,4-TRICHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	1,2,4-TRIMETHYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.45	UG_L	U	0.5	0.45	U	
ERH1256	BA26019	1	1,2-DIBROMO-3-CHLOROPROPANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.92	UG_L	U	2.0	0.92	U	
ERH1256	BA26019	1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	1,2-DICHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	1,2-DICHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	1,2-DICHLOROPROPANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1256	BA26019	1	1,3-DICHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	1,3-DICHLOROPROPANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	1,4-DICHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	2,2-DICHLOROPROPANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **524.2**													
ERH1256	BA26019	1	2-CHLOROTOLUENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	4-CHLOROTOLUENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1256	BA26019	1	BENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	BROMOBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	BROMOCHLOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	BROMODICHLOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1256	BA26019	1	BROMOFORM	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	BROMOMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1256	BA26019	1	CARBON TETRACHLORIDE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.18	UG_L	U	0.2	0.18	U	
ERH1256	BA26019	1	CHLOROBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	CHLOROETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1256	BA26019	1	CHLOROFORM	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	CHLOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	CIS-1,2-DICHLOROETHYLENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1256	BA26019	1	CIS-1,3-DICHLOROPROPENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	CYMENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	DIBROMOCHLOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	DIBROMOMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.32	UG_L	U	0.5	0.32	U	
ERH1256	BA26019	1	DICHLORODIFLUOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.36	UG_L	U	0.5	0.36	U	
ERH1256	BA26019	1	ETHYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	HEXACHLOROBUTADIENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	ISOPROPYLBENZENE (CUMENE)	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	METHYLENE CHLORIDE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.45	UG_L	U	0.5	0.45	U	
ERH1256	BA26019	1	NAPHTHALENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	N-BUTYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	N-PROPYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	SEC-BUTYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **524.2**													
ERH1256	BA26019	1	STYRENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1256	BA26019	1	T-BUTYLBENZENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.04	UG_L	U	0.5	0.04	U	
ERH1256	BA26019	1	TERT-BUTYL METHYL ETHER	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.47	UG_L	U	0.5	0.47	U	
ERH1256	BA26019	1	TETRACHLOROETHYLENE(PCE)	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.2	0.20	U	
ERH1256	BA26019	1	TOLUENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1256	BA26019	1	TRANS-1,2-DICHLOROETHENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	TRANS-1,3-DICHLOROPROPENE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1256	BA26019	1	TRICHLOROETHYLENE (TCE)	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.12	UG_L	U	0.2	0.12	U	
ERH1256	BA26019	1	TRICHLOROFLUOROMETHANE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1256	BA26019	1	VINYL CHLORIDE	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1256	BA26019	1	Xylenes	1/26/2021 8:45:00 AM	2/3/2021 5:43:00 PM	C	0.44	UG_L	U	0.5	0.44	U	
ERH1257	BA26020	1	1,1,1,2-TETRACHLORO ETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	1,1,1-TRICHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	1,1,2,2-TETRACHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.04	UG_L	U	0.5	0.04	U	
ERH1257	BA26020	1	1,1,2-TRICHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.32	UG_L	U	0.5	0.32	U	
ERH1257	BA26020	1	1,1-DICHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1257	BA26020	1	1,1-DICHLOROETHENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	1,1-DICHLOROPROPENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	1,2,3-TRICHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	1,2,3-TRICHLOROPROPANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.36	UG_L	U	0.5	0.36	U	
ERH1257	BA26020	1	1,2,4-TRICHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	1,2,4-TRIMETHYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.45	UG_L	U	0.5	0.45	U	
ERH1257	BA26020	1	1,2-DIBROMO-3-CHLOROPROPANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.92	UG_L	U	2.0	0.92	U	
ERH1257	BA26020	1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	1,2-DICHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	1,2-DICHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **524.2**													
ERH1257	BA26020	1	1,2-DICHLOROPROPANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1257	BA26020	1	1,3-DICHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	1,3-DICHLOROPROPANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	1,4-DICHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	2,2-DICHLOROPROPANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	2-CHLOROTOLUENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	4-CHLOROTOLUENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1257	BA26020	1	BENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	BROMOBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	BROMOCHLOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	BROMODICHLOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1257	BA26020	1	BROMOFORM	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	BROMOMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1257	BA26020	1	CARBON TETRACHLORIDE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.18	UG_L	U	0.2	0.18	U	
ERH1257	BA26020	1	CHLOROBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	CHLOROETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1257	BA26020	1	CHLOROFORM	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	CHLOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	CIS-1,2-DICHLOROETHYLENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.08	UG_L	U	0.5	0.08	U	
ERH1257	BA26020	1	CIS-1,3-DICHLOROPROPENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	CYMENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	DIBROMOCHLOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	DIBROMOMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.32	UG_L	U	0.5	0.32	U	
ERH1257	BA26020	1	DICHLORODIFLUOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.36	UG_L	U	0.5	0.36	U	
ERH1257	BA26020	1	ETHYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	HEXACHLOROBUTADIENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **524.2**													
ERH1257	BA26020	1	ISOPROPYLBENZENE (CUMENE)	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	METHYLENE CHLORIDE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.45	UG_L	U	0.5	0.45	U	
ERH1257	BA26020	1	NAPHTHALENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	N-BUTYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	N-PROPYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	SEC-BUTYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	STYRENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.24	UG_L	U	0.5	0.24	U	
ERH1257	BA26020	1	T-BUTYLBENZENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.04	UG_L	U	0.5	0.04	U	
ERH1257	BA26020	1	TERT-BUTYL METHYL ETHER	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.47	UG_L	U	0.5	0.47	U	
ERH1257	BA26020	1	TETRACHLOROETHYLENE(PCE)	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.2	0.20	U	
ERH1257	BA26020	1	TOLUENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.40	UG_L	U	0.5	0.40	U	
ERH1257	BA26020	1	TRANS-1,2-DICHLOROETHENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	TRANS-1,3-DICHLOROPROPENE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.5	0.12	U	
ERH1257	BA26020	1	TRICHLOROETHYLENE (TCE)	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.12	UG_L	U	0.2	0.12	U	
ERH1257	BA26020	1	TRICHLOROFLUOROMETHANE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.20	UG_L	U	0.5	0.20	U	
ERH1257	BA26020	1	VINYL CHLORIDE	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.16	UG_L	U	0.5	0.16	U	
ERH1257	BA26020	1	Xylenes	1/26/2021 9:10:00 AM	2/3/2021 6:08:00 PM	C	0.44	UG_L	U	0.5	0.44	U	
METHOD: **525.2**													
ERH1256	BA26019	1	2,4-DINITROTOLUENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h,c
ERH1256	BA26019	1	2,6-DINITROTOLUENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h,c
ERH1256	BA26019	1	ACENAPHTHENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	ACENAPHTHYLENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	ACETOCHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	ALACHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	ALDRIN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	ALPHA ENDOSULFAN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	1.0	1.0	UJ	h,v

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1256	BA26019	1	ALPHA-CHLORDANE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	ANTHRACENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	ATRAZINE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	BENZO(A)ANTHRACENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	BENZO(A)PYRENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	BENZO(B)FLUORANTHENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	BENZO(G,H,I)PERYLENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	BENZO(K)FLUORANTHENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	BENZYL BUTYL PHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h
ERH1256	BA26019	1	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	BETA ENDOSULFAN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	BIS(2-ETHYLHEXYL) PHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	3.0	3.0	UJ	h
ERH1256	BA26019	1	BROMACIL	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	BUTACHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,c
ERH1256	BA26019	1	CAFFEINE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	CAPTAN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	1.0	1.0	UJ	h,l
ERH1256	BA26019	1	CARBOPHENOTHION (TRITHION)	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,l
ERH1256	BA26019	1	Chlordane; Gamma-	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	CHRYSENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	CYANAZINE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,l
ERH1256	BA26019	1	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	DIAZINON	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	DIBENZ(A,H)ANTHRACENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	DIELDRIN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	DIETHYL PHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h
ERH1256	BA26019	1	DIMETHOATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,l
ERH1256	BA26019	1	DIMETHYL PHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1256	BA26019	1	DI-N-BUTYL PHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h
ERH1256	BA26019	1	DI-N-OCTYLPHTHALATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	DIOCTYL ADIPATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	5.0	5.0	UJ	h
ERH1256	BA26019	1	DIPHENAMID	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	DISULFOTON	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	ENDOSULFAN SULFATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	ENDRIN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	ENDRIN ALDEHYDE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	ENDRIN KETONE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	ETHION	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,c
ERH1256	BA26019	1	FLUORANTHENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	FLUORENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	GAMMA BHC (LINDANE)	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	HEPTACHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	HEPTACHLOR EPOXIDE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	HEXACHLOROBENZENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	HEXACHLOROCYCLOPENTADIENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	1.0	1.0	UJ	h
ERH1256	BA26019	1	INDENO(1,2,3-C,D)PYRENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	ISOPROPYL M-CHLOROCARBANILATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	METHOXYCHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	METOLACHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	METRIBUZIN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	MOLINATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	NAPHTHALENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	P,P'-DDD	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1256	BA26019	1	P,P'-DDE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1256	BA26019	1	P,P'-DDT	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,v

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1256	BA26019	1	PENTACHLORONITROBENZENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	PENTACHLOROPHENOL	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	1.0	1.0	UJ	h,c,l
ERH1256	BA26019	1	PHENANTHRENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	PROMETON	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	PROMETRYN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	PROPACHLOR	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.20	0.20	UJ	h
ERH1256	BA26019	1	PYRENE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.50	0.50	UJ	h
ERH1256	BA26019	1	S-ETHYL DI-N,N-PROPYLTHIOCARBAMATE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	SIMAZINE	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	TERBACIL	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	2.0	2.0	UJ	h,c,l
ERH1256	BA26019	1	Thiobencarb	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h
ERH1256	BA26019	1	TRIFLURALIN	1/26/2021 8:45:00 AM	2/12/2021 12:57:00 PM	C		UG_L	U	0.10	0.10	UJ	h,c
ERH1257	BA26020	1	2,4-DINITROTOLUENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h,c
ERH1257	BA26020	1	2,6-DINITROTOLUENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h,c
ERH1257	BA26020	1	ACENAPHTHENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	ACENAPHTHYLENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	ACETOCHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	ALACHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	ALDRIN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXAN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	ALPHA ENDOSULFAN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	1.0	1.0	UJ	h,v
ERH1257	BA26020	1	ALPHA-CHLORDANE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	ANTHRACENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	ATRAZINE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	BENZO(A)ANTHRACENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	BENZO(A)PYRENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	BENZO(B)FLUORANTHENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1257	BA26020	1	BENZO(G,H,I)PERYLENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	BENZO(K)FLUORANTHENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	BENZYL BUTYL PHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h
ERH1257	BA26020	1	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	BETA ENDOSULFAN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	BIS(2-ETHYLHEXYL) PHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	3.0	3.0	UJ	h
ERH1257	BA26020	1	BROMACIL	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	BUTACHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,c
ERH1257	BA26020	1	CAFFEINE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	CAPTAN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	1.0	1.0	UJ	h,l
ERH1257	BA26020	1	CARBOPHENOTHION (TRITHION)	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,l
ERH1257	BA26020	1	Chlordane; Gamma-	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	CHRYSENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	CYANAZINE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,l
ERH1257	BA26020	1	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	DIAZINON	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	DIBENZ(A,H)ANTHRACENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	DIELDRIN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	DIETHYL PHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h
ERH1257	BA26020	1	DIMETHOATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,l
ERH1257	BA26020	1	DIMETHYL PHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h
ERH1257	BA26020	1	DI-N-BUTYL PHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h
ERH1257	BA26020	1	DI-N-OCTYLPHTHALATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	DIOCTYL ADIPATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	5.0	5.0	UJ	h
ERH1257	BA26020	1	DIPHENAMID	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	DISULFOTON	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	ENDOSULFAN SULFATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1257	BA26020	1	ENDRIN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	ENDRIN ALDEHYDE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	ENDRIN KETONE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	ETHION	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,c
ERH1257	BA26020	1	FLUORANTHENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	FLUORENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	GAMMA BHC (LINDANE)	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	HEPTACHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	HEPTACHLOR EPOXIDE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	HEXACHLOROBENZENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	HEXACHLOROCYCLOPENTADIENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	1.0	1.0	UJ	h
ERH1257	BA26020	1	INDENO(1,2,3-C,D)PYRENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	ISOPROPYL M-CHLOROCARBANILATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	METHOXYCHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	METOLACHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	METRIBUZIN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	MOLINATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	NAPHTHALENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	P,P'-DDD	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	P,P'-DDE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h,v
ERH1257	BA26020	1	P,P'-DDT	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,v
ERH1257	BA26020	1	PENTACHLORONITROBENZENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	PENTACHLOROPHENOL	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	1.0	1.0	UJ	h,c,l
ERH1257	BA26020	1	PHENANTHRENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	PROMETON	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	PROMETRYN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	PROPACHLOR	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.20	0.20	UJ	h

EPA_NO	LAB_ID	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **525.2**													
ERH1257	BA26020	1	PYRENE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.50	0.50	UJ	h
ERH1257	BA26020	1	S-ETHYL DI-N,N-PROPYLTHIOCARBAMATE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	SIMAZINE	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	TERBACIL	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	2.0	2.0	UJ	h,c,l
ERH1257	BA26020	1	Thiobencarb	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h
ERH1257	BA26020	1	TRIFLURALIN	1/26/2021 9:10:00 AM	2/12/2021 1:24:00 AM	C		UG_L	U	0.10	0.10	UJ	h,c
METHOD: **5310C**													
ERH1256	BA26019	1	DISSOLVED ORGANIC CARBON	1/26/2021 8:45:00 AM	1/28/2021 11:22:00 PM	C	0.24	MG_L	J	0.5	0.35	J	
ERH1257	BA26020	1	DISSOLVED ORGANIC CARBON	1/26/2021 9:10:00 AM	1/28/2021 11:58:00 PM	C	0.20	MG_L	J	0.5	0.35	J	
METHOD: **8015B**													
ERH1256	BA26019	1	C10-C25 DIESEL RANGE ORGANICS	1/26/2021 8:45:00 AM	2/2/2021 8:06:00 PM	C	300.0	UG_L	U	320	300.0	U	
ERH1256	BA26019	1	C8-C18 PETROLEUM HYDROCARBONS	1/26/2021 8:45:00 AM	2/2/2021 8:06:00 PM	C	340	UG_L	T4M	320	300.0	R	d
ERH1257	BA26020	1	C10-C25 DIESEL RANGE ORGANICS	1/26/2021 9:10:00 AM	2/2/2021 9:02:00 PM	C	300.0	UG_L	U	320	300.0	U	
ERH1257	BA26020	1	C8-C18 PETROLEUM HYDROCARBONS	1/26/2021 9:10:00 AM	2/2/2021 9:02:00 PM	C	260	UG_L	JT4M	320	300.0	R	d
METHOD: **8015B_E**													
ERH1256	BA26019	1	C10-C25 DIESEL RANGE ORGANICS	1/26/2021 8:45:00 AM	2/19/2021 7:24:00 PM	C	300.0	UG_L	U	320	300.0	R	d
ERH1256	BA26019	1	C8-C18 PETROLEUM HYDROCARBONS	1/26/2021 8:45:00 AM	2/19/2021 7:24:00 PM	C	300.0	UG_L	U	320	300.0	UJ	h
ERH1257	BA26020	1	C10-C25 DIESEL RANGE ORGANICS	1/26/2021 9:10:00 AM	2/19/2021 7:52:00 PM	C	300.0	UG_L	U	320	300.0	R	d
ERH1257	BA26020	1	C8-C18 PETROLEUM HYDROCARBONS	1/26/2021 9:10:00 AM	2/19/2021 7:52:00 PM	C	300.0	UG_L	U	320	300.0	UJ	h