

DEPARTMENT OF THE AIR FORCE 377TH AIR BASE WING (AFGSC)

11 November 2020

Colonel David S. Miller, USAF Commander 377th Air Base Wing 2000 Wyoming Blvd SE Kirtland AFB NM 87117

Kevin Pierard Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505

Dear Mr. Pierard:

This addendum supplements the 15-Day Letter Report, which was submitted to the New Mexico Environment Department's (NMED) Hazardous Waste Bureau on October 19, 2020 regarding the release of water that occurred at the groundwater treatment system (GWTS) on October 6, 2020. The GWTS, which is associated with the Bulk Fuels Facility Interim Measure at Kirtland Air Force Base (AFB), is operated under the corrective action provisions in Part 6 of the Resource Conservation and Recovery Act Hazardous Waste Treatment Operating Permit Number NM9570024423 (RCRA Permit). The report was submitted pursuant to the 15-day reporting requirement in Part 1.27.1 of the RCRA Permit.

OCTOBER 12, 2020 SAMPLING EVENT AND RESULTS

A second round of soil samples were collected on October 12, 2020 from approximately the same locations and depths as the October 6, 2020 samples (Attachment 1, Figures 1 and 2). The second set of samples were submitted to Eurofins TestAmerica in Arvada, Colorado for the same analyses as the first round. Eurofins TestAmerica maintains a Department of Defense Environmental Laboratory Accreditation Program certification.

Item 1 of NMED's letter *Reporting Requirements for all Document Submittals, Kirtland Air Force Base, New Mexico EPA ID# NM6213820974, HWB-KAFB-20-MISC* dated September 2, 2020, discusses requirements of Part 6.5.18.2, Laboratory Deliverables. Per Part 6.5.18.2 of the RCRA Permit, laboratory analytical data packages were prepared in accordance with Environmental Protection Agency-established Level 2 and 4 analytical data reporting protocols. In accordance with this requirement, a summary table of data and Level 2 analytical report for the second sampling event are presented in Attachments 2 and 3 of this letter. The Level 4 analytical reports containing raw analytical data including calibration curves, instrument

calibration data, data calculation work sheets, and other laboratory supporting data will be maintained on file at Kirtland AFB for reference.

The analytical results were received from the Eurofins TestAmerica laboratory on October 28, 2020. The EDB and BTEX analytical results were reported non-detect at the limit of detection per DoD requirement for the samples collected October 12, 2020 (Attachment 3). Iron concentrations ranged from 7,200 to 11,000 milligrams per kilogram and manganese concentrations ranged from 91 to 140 milligrams per kilogram. Iron and manganese concentrations were below the EPA regional residential screening levels. Based on the fact that EDB and BTEX analytical results were non-detect, the Air Force believes no further abatement activities are necessary regarding the release. A document certification page for this letter is included as Attachment 4.

If you have any questions or concerns, please contact Mr. Sheen Kottkamp at commercial line 505-846-7674 or email sheen.kottkamp.1@us.af.mil.

Sincerely

DAVID S. MILLER, Colonel, USAF Commander

Attachments:

Attachment 1, Figures

Attachment 2, Laboratory Analytical Reports

Attachment 3, Table

Attachment 4, Document Certification

cc:

NMED HWB (Cobrain), letter

NMED GWQB (Pullen), letter

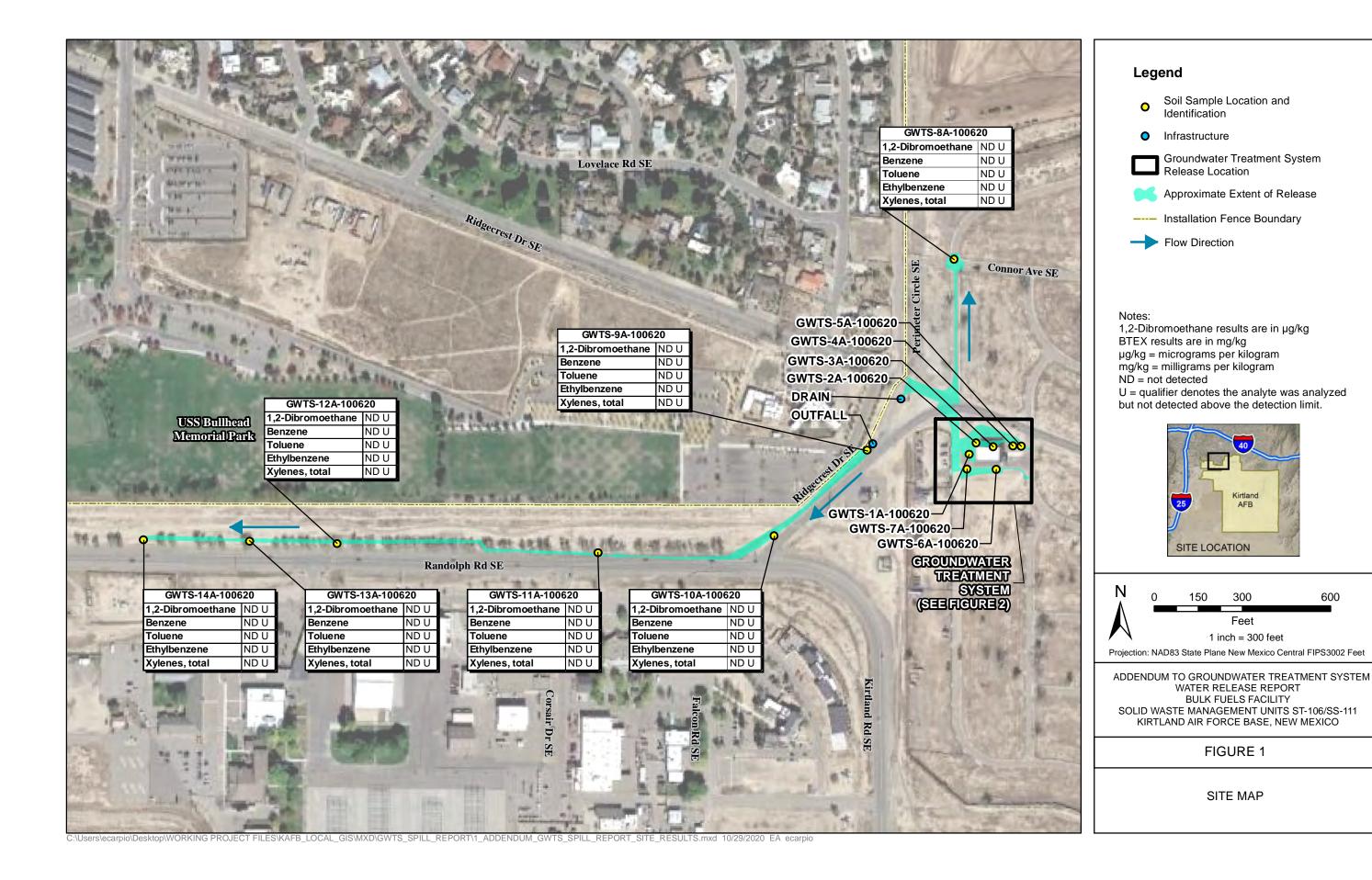
SAF-IEE (Lynnes), electronic only

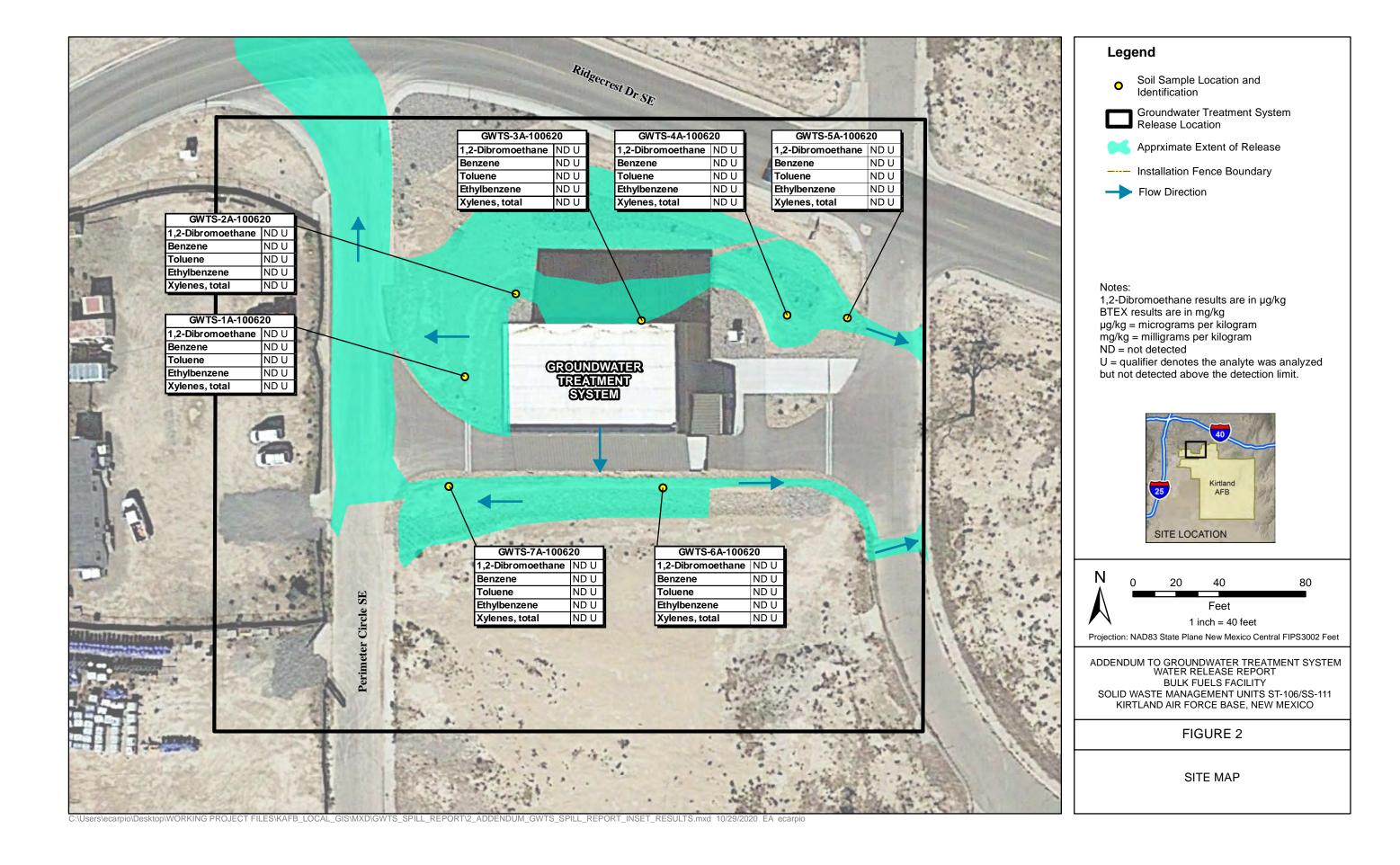
AFCEC/CZ (Renaghan, Clark, Kottkamp, Segura, Cash, Banks), electronic only

USACE-ABQ District Office (Moayyad, Phaneuf, Kunkel, Dreeland, Cordova, Lovato). electronic only

Public Info Repository, Administrative Record/Information Repository (AR/IR) and File

ATTACHMENT 1 FIGURES





ATTACHMENT 2

EUROFINS ANALYSIS REPORTS DATED OCTOBER 28, 2020



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-17007-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology 405 S. Highway 121 bypass Building C Suite 100 Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by: 10/28/2020 4:53:42 PM

Darlene Bandy, Project Manager I (303)736-0188

Darlene.Bandy@Eurofinset.com

LINKS

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

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

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

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- * QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.
- * Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANACASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Darlene Bandy

Project Manager I

10/28/2020 4:53:42 PM

Darlene Bandy

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Definitions/Glossary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility Job ID: 410-17007-1

Qualifiers

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Qualifier Qualifier Description

Undetected at the Limit of Detection.

Metals

Qualifier Qualifier Description

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

J1 Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

U Undetected at the Limit of Detection.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

1C Result is from the primary column on a dual-column method.
 2C Result is from the confirmation column on a dual-column method.

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Lancaster Laboratories Env, LLC

Case Narrative

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

Job ID: 410-17007-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17007-1

Comments

No additional comments.

Receipt

The samples were received on 10/13/2020 9:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 3.1° C.

Receipt Exceptions

The samples in job 410-17007-1 were shipped directly to Eurofins TestAmerica Denver by the client. The inter-company COC (ICOC) was generated only because, since the samples were logged by Eurofins Lancaster Laboratories Environment, they needed to be "shipped" in the LIMS in order for ETA Denver to receive them.

GWTS-1A-101220 (410-17007-1), GWTS-2A-101220 (410-17007-2), GWTS-3A-101220 (410-17007-3), GWTS-4A-101220 (410-17007-4), GWTS-5A-101220 (410-17007-5), GWTS-6A-101220 (410-17007-6), GWTS-7A-101220 (410-17007-7), GWTS-TB01-101220 (410-17007-8), GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14), GWTS-14A-101220 (410-17007-15), GWTS-TB02-101220 (410-17007-16), GWTS-1A-101220-FD (410-17007-17) and GWTS-2A-101220-FD (410-17007-18)

As requested by the client, two of the samples were also logged as field duplicates. Sample GWTS-1A-101220 (410-17007-1) was also logged as sample GWTS-1A-101220-FD (410-17007-17). Sample GWTS-2A-101220 (410-17007-2) was also logged as sample GWTS-2A-101220-FD (410-17007-18).

Containers for these samples were received 10/13/2020: GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14), GWTS-14A-101220 (410-17007-15) and GWTS-TB02-101220 (410-17007-16)

One cooler was delayed by FedEx, and was received at the laboratory on 10/14/2020. It is noted that this cooler was received within temperature requirements. Due to the delay in sample receipt, the turnaround time began on 10/14/2020.

The client needed the 8011 data as soon as possible; therefore, the 8011 and % Moisture methods were split off into job series 410-17007-2, with a faster turnaround time. All other methods on the chain of custody are reported under SDG 410-17007-1. GWTS-1A-101220 (410-17007-1), GWTS-2A-101220 (410-17007-2), GWTS-3A-101220 (410-17007-3), GWTS-4A-101220 (410-17007-4), GWTS-5A-101220 (410-17007-5), GWTS-6A-101220 (410-17007-6), GWTS-7A-101220 (410-17007-7), GWTS-TB01-101220 (410-17007-8), GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14), GWTS-14A-101220 (410-17007-15), GWTS-TB02-101220 (410-17007-16), GWTS-1A-101220-FD (410-17007-17) and GWTS-2A-101220-FD (410-17007-18)

GC/MS VOA

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

Metals

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

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Job ID: 410-17007-1

Lab Sample ID: 410-17007-4

Lab Sample ID: 410-17007-5

Lab Sample ID: 410-17007-7

Lab Sample ID: 410-17007-8

Lab Sample ID: 410-17007-16

Lab Sample ID: 410-17007-17

Lab Sample ID: 410-17007-18

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220 Lab Sample ID: 410-17007-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	9600	J1	85	21	8.8	mg/Kg	1	₩	6010C	Total/NA
Manganese	140	.11	4.8	0.42	0 11	ma/Ka	1	24	6010C	Total/NA

Client Sample ID: GWTS-2A-101220 Lab Sample ID: 410-17007-2

Analyte	Result Qualifier	LOQ	LOD	DL Unit	Dil Fac D Method	Prep Type
Iron	11000	84	21	8.6 mg/Kg	1 🌣 6010C	Total/NA
Manganese	140	4.7	0.42	0.10 mg/Kg	1 🌣 6010C	Total/NA

Client Sample ID: GWTS-4A-101220

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	7500		82	21	8.5	mg/Kg	1	₩	6010C	Total/NA
Manganese	110		4.6	0.41	0.10	mg/Kg	1	₽	6010C	Total/NA

Client Sample ID: GWTS-5A-101220

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	7800		71	18	7.3	mg/Kg	1	₩	6010C	Total/NA
Manganese	99		4.0	0.35	0.088	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: GWTS-7A-101220

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	7200		72	18	7.5	mg/Kg	1	⊅	6010C	Total/NA
Manganese	91		4.1	0.36	0.090	mg/Kg	1	₩	6010C	Total/NA

Oliant Canada ID. OMTO TD04 404000

Cilent	Sample	ID: GV	V 1 3 - 1 D	01-10122	U

No Detections.

Client Sample ID: GWTS-TB02-101220

No Detections.

Client Sample ID: GWTS-1A-101220-FD

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	9500	J1	86	21	8.8	mg/Kg	1	☼	6010C	Total/NA
Manganese	110	J1	4.8	0.43	0.11	mg/Kg	1	₽	6010C	Total/NA

Client Sample ID: GWTS-2A-101220-FD

_							
Analyte	Result Qualifier	LOQ	LOD	DL Unit	Dil Fac D	Method	Prep Type
Iron	11000	74	19	7.7 mg/Kg	<u></u>	6010C	Total/NA
Manganese	130	4.2	0.37	0.093 ma/Ka	1 ☆	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: EA Engineering, Science, and Technology Job ID: 410-17007-1 Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220

Lab Sample ID: 410-17007-1 Date Collected: 10/12/20 09:00 **Matrix: Solid**

Date Received: 10/13/20 09:15 Percent Solids: 90.2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.40	U	5.0	0.40	0.15	ug/Kg	<u></u>	10/26/20 10:30	1
Ethylbenzene	0.80	U	5.0	0.80	0.30	ug/Kg	₩	10/26/20 10:30	1
Toluene	0.80	U	5.0	0.80	0.23	ug/Kg	₩	10/26/20 10:30	1
m-Xylene & p-Xylene	3.2	U	3.2	3.2	1.0	ug/Kg	₩	10/26/20 10:30	1
o-Xylene	0.80	U	5.0	0.80	0.26	ug/Kg	☼	10/26/20 10:30	1
Xylenes, Total	1.0	U	10	1.0	0.61	ug/Kg	₽	10/26/20 10:30	1

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99	85 - 116	10/26/20 07:20	10/26/20 10:30	1
1,2-Dichloroethane-d4 (Surr)	104	71 - 136	10/26/20 07:20	10/26/20 10:30	1
4-Bromofluorobenzene (Surr)	100	79 - 119	10/26/20 07:20	10/26/20 10:30	1
Dibromofluoromethane (Surr)	100	78 - 119	10/26/20 07:20	10/26/20 10:30	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	9600	J1	85	21	8.8	mg/Kg	<u></u>	10/16/20 11:41	1
Manganese	140	J1	4.8	0.42	0.11	mg/Kg	₽	10/16/20 11:41	1

Client Sample ID: GWTS-2A-101220 Lab Sample ID: 410-17007-2

Date Collected: 10/12/20 09:03 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 89.3

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
Benzene	0.43	U	5.3	0.43	0.16	ug/Kg	— -	10/26/20 10:52	1	
Ethylbenzene	0.86	U	5.3	0.86	0.33	ug/Kg	₽	10/26/20 10:52	1	
Toluene	0.86	U	5.3	0.86	0.24	ug/Kg	₽	10/26/20 10:52	1	
m-Xylene & p-Xylene	3.4	U	3.4	3.4	1.1	ug/Kg	₩	10/26/20 10:52	1	
o-Xylene	0.86	U	5.3	0.86	0.28	ug/Kg	₩	10/26/20 10:52	1	
Xylenes, Total	1.1	U	11	1.1	0.65	ug/Kg	₩	10/26/20 10:52	1	

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
Toluene-d8 (Surr)	97	85 - 116	10/26/20 07:20 10/26/20 10:	52 1
1,2-Dichloroethane-d4 (Surr)	104	71 - 136	10/26/20 07:20 10/26/20 10:	52 1
4-Bromofluorobenzene (Surr)	99	79 - 119	10/26/20 07:20 10/26/20 10:	52 1
Dibromofluoromethane (Surr)	102	78 - 119	10/26/20 07:20 10/26/20 10:	52 1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	11000		84	21	8.6	mg/Kg	<u></u>	10/16/20 12:11	1
Manganese	140		4.7	0.42	0.10	mg/Kg	₩	10/16/20 12:11	1

Client Sample ID: GWTS-4A-101220 Lab Sample ID: 410-17007-4

Date Collected: 10/12/20 09:09 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 90.0

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.44	U	5.4	0.44	0.16	ug/Kg	<u></u>	10/26/20 11:15	1
Ethylbenzene	0.87	U	5.4	0.87	0.33	ug/Kg	₩	10/26/20 11:15	1
Toluene	0.87	U	5.4	0.87	0.25	ug/Kg	≎	10/26/20 11:15	1

Eurofins Lancaster Laboratories Env, LLC

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Job ID: 410-17007-1 Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-4A-101220

Lab Sample ID: 410-17007-4 Date Collected: 10/12/20 09:09 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 90.0

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m-Xylene & p-Xylene	3.5	U	3.5	3.5	1.1	ug/Kg	-	10/26/20 11:15	1
o-Xylene	0.87	U	5.4	0.87	0.29	ug/Kg	₩	10/26/20 11:15	1
Xylenes, Total	1.1	U	11	1.1	0.66	ug/Kg	☼	10/26/20 11:15	1
Surrogate	%Recovery Q	ualifier	Limits			Prepa	red	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		85 - 116			10/26/20	07:20	10/26/20 11:15	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 136			10/26/20	07:20	10/26/20 11:15	1
4-Bromofluorobenzene (Surr)	101		79 - 119			10/26/20	07:20	10/26/20 11:15	1
Dibromofluoromethane (Surr)	100		78 - 119			10/26/20	07:20	10/26/20 11:15	1

1	Wethou. 60 foc - Wetais (ICF)									
	Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Iron	7500		82	21	8.5	mg/Kg	₩	10/16/20 12:15	1
	Manganese	110		4.6	0.41	0.10	mg/Kg	₽	10/16/20 12:15	1

Lab Sample ID: 410-17007-5 Client Sample ID: GWTS-5A-101220 Date Collected: 10/12/20 09:11

Matrix: Solid Date Received: 10/13/20 09:15 Percent Solids: 88 8

Date Received. 10/13/20	09.15							Percent Sond	5. 00.0
Method: 8260C DOD - V	olatile Organic Com	pounds ((GC/MS)						
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.40	U	5.0	0.40	0.15	ug/Kg	<u></u>	10/26/20 11:37	1
Ethylbenzene	0.80	U	5.0	0.80	0.31	ug/Kg	₩	10/26/20 11:37	1
Toluene	0.80	U	5.0	0.80	0.23	ug/Kg	₩	10/26/20 11:37	1
m-Xylene & p-Xylene	3.2	U	3.2	3.2	1.0	ug/Kg	₩	10/26/20 11:37	1
o-Xylene	0.80	U	5.0	0.80	0.27	ug/Kg	₩	10/26/20 11:37	1
Xylenes, Total	1.0	U	10	1.0	0.61	ug/Kg	₽	10/26/20 11:37	1
Surrogate	%Recovery Q	ualifier	Limits			Prepa	red	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		85 - 116			10/26/20	07:20	10/26/20 11:37	1

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Dibromofluoromethane (Surr)	101	78 - 119	10/26/20 07:20 10/26/20 11:37	1
4-Bromofluorobenzene (Surr)	100	79 - 119	10/26/20 07:20 10/26/20 11:37	1
1,2-Dichloroethane-d4 (Surr)	103	71 - 136	10/26/20 07:20 10/26/20 11:37	1
Toluene-a8 (Surr)	98	85 - 116	10/26/20 07:20 10/26/20 11:37	7

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	7800		71	18	7.3	mg/Kg	<u></u>	10/16/20 12:18	1
Manganese	99		4.0	0.35	0.088	mg/Kg	☼	10/16/20 12:18	1

Client Sample ID: GWTS-7A-101220 Lab Sample ID: 410-17007-7 Date Collected: 10/12/20 09:17 **Matrix: Solid** Percent Solids: 95.5 Date Received: 10/13/20 09:15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.41	U	5.2	0.41	0.16	ug/Kg	☼	10/26/20 11:59	1
Ethylbenzene	0.83	U	5.2	0.83	0.32	ug/Kg	₩	10/26/20 11:59	1
Toluene	0.83	U	5.2	0.83	0.24	ug/Kg	₩	10/26/20 11:59	1
m-Xylene & p-Xylene	3.3	U	3.3	3.3	1.1	ug/Kg	₩	10/26/20 11:59	1
o-Xylene	0.83	U	5.2	0.83	0.28	ug/Kg	₩	10/26/20 11:59	1
Xylenes, Total	1.0	U	10	1.0	0.63	ug/Kg	☼	10/26/20 11:59	1

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Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-7A-101220

Date Collected: 10/12/20 09:17 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-7

Matrix: Solid

Job ID: 410-17007-1

Percent Solids: 95.5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98	85 - 116	10/26/20 07:20	10/26/20 11:59	1
1,2-Dichloroethane-d4 (Surr)	105	71 - 136	10/26/20 07:20	10/26/20 11:59	1
4-Bromofluorobenzene (Surr)	100	79 - 119	10/26/20 07:20	10/26/20 11:59	1
Dibromofluoromethane (Surr)	101	78 - 119	10/26/20 07:20	10/26/20 11:59	1

Method: 6010C - Metals (ICP) Analyte Result Qualifier LOQ LOD DL Unit Analyzed Dil Fac Iron 7200 72 18 7.5 mg/Kg 10/16/20 12:21 4.1 0.36 0.090 mg/Kg Manganese 91

Client Sample ID: GWTS-TB01-101220

Date Collected: 10/12/20 13:00 Date Received: 10/13/20 09:15 **Lab Sample ID: 410-17007-8**

Matrix: Water

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

Method. 02000 DOD - Volat	ne Organic Com	poullus (OC							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.40	U	1.0	0.40	0.16	ug/L		10/22/20 10:57	1
Ethylbenzene	0.40	U	1.0	0.40	0.16	ug/L		10/22/20 10:57	1
Toluene	0.40	U	1.0	0.40	0.17	ug/L		10/22/20 10:57	1
m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.15	ug/L		10/22/20 10:57	1
o-Xylene	0.40	U	1.0	0.40	0.19	ug/L		10/22/20 10:57	1
Xylenes, Total	0.80	U	1.0	0.80	0.19	ug/L		10/22/20 10:57	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99	89 - 112		10/22/20 10:57	1
1,2-Dichloroethane-d4 (Surr)	93	81 - 118		10/22/20 10:57	1
4-Bromofluorobenzene (Surr)	105	85 - 114		10/22/20 10:57	1
Dibromofluoromethane (Surr)	99	80 - 119		10/22/20 10:57	1

Client Sample ID: GWTS-TB02-101220

Date Collected: 10/12/20 13:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-16

Matrix: Water

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

moundar ozooc zoz roiai		P0440 (00	7						
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	0.40	U	1.0	0.40	0.16	ug/L		10/22/20 11:19	1
Ethylbenzene	0.40	U	1.0	0.40	0.16	ug/L		10/22/20 11:19	1
Toluene	0.40	U	1.0	0.40	0.17	ug/L		10/22/20 11:19	1
m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.15	ug/L		10/22/20 11:19	1
o-Xylene	0.40	U	1.0	0.40	0.19	ug/L		10/22/20 11:19	1
Xylenes, Total	0.80	U	1.0	0.80	0.19	ug/L		10/22/20 11:19	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101	89 - 112		10/22/20 11:19	1
1,2-Dichloroethane-d4 (Surr)	106	81 - 118		10/22/20 11:19	1
4-Bromofluorobenzene (Surr)	105	85 - 114		10/22/20 11:19	1
Dibromofluoromethane (Surr)	101	80 - 119		10/22/20 11:19	1

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220-FD

Date Collected: 10/12/20 09:00

Lab Sample ID: 410-17007-17

Matrix: Solid Percent Solids: 90.7

Job ID: 410-17007-1

Date Received: 10/13/20 09:15	

e Organic Com	pounds (GC	;/MS)						
Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
0.44	U	5.5	0.44	0.17	ug/Kg	<u></u>	10/26/20 12:22	1
0.88	U	5.5	0.88	0.34	ug/Kg	₩	10/26/20 12:22	1
0.88	U	5.5	0.88	0.25	ug/Kg	☆	10/26/20 12:22	1
3.5	U	3.5	3.5	1.1	ug/Kg	₩	10/26/20 12:22	1
0.88	U	5.5	0.88	0.29	ug/Kg	₩	10/26/20 12:22	1
1.1	U	11	1.1	0.67	ug/Kg	≎	10/26/20 12:22	1
	Result 0.44 0.88 0.88 3.5 0.88	Result Qualifier 0.44 U 0.88 U 0.88 U 0.88 U 0.88 U 1.1 U	0.44 U 5.5 0.88 U 5.5 0.88 U 5.5 3.5 U 3.5 0.88 U 5.5	Result Qualifier LOQ LOD 0.44 U 5.5 0.44 0.88 U 5.5 0.88 0.88 U 5.5 0.88 3.5 U 3.5 3.5 0.88 U 5.5 0.88	Result Qualifier LOQ LOD DL 0.44 U 5.5 0.44 0.17 0.88 U 5.5 0.88 0.34 0.88 U 5.5 0.88 0.25 3.5 U 3.5 3.5 1.1 0.88 U 5.5 0.88 0.29	Result Qualifier LOQ LOD DL Unit 0.44 U 5.5 0.44 0.17 ug/Kg 0.88 U 5.5 0.88 0.34 ug/Kg 0.88 U 5.5 0.88 0.25 ug/Kg 3.5 U 3.5 3.5 1.1 ug/Kg 0.88 U 5.5 0.88 0.29 ug/Kg	Result Qualifier LOQ LOD DL Unit D 0.44 U 5.5 0.44 0.17 ug/Kg ☆ 0.88 U 5.5 0.88 0.34 ug/Kg ☆ 0.88 U 5.5 0.88 0.25 ug/Kg ☆ 3.5 U 3.5 3.5 1.1 ug/Kg ☆ 0.88 U 5.5 0.88 0.29 ug/Kg ☆	Result Qualifier LOQ LOD DL ug/Kg Unit D managed 0.44 U 5.5 0.44 0.17 ug/Kg □ 10/26/20 12:22 0.88 U 5.5 0.88 0.34 ug/Kg □ 10/26/20 12:22 0.88 U 5.5 0.88 0.25 ug/Kg □ 10/26/20 12:22 3.5 U 3.5 3.5 1.1 ug/Kg □ 10/26/20 12:22 0.88 U 5.5 0.88 0.29 ug/Kg □ 10/26/20 12:22

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98	85 - 116	10/26/20 07:20	10/26/20 12:22	1
1,2-Dichloroethane-d4 (Surr)	103	71 - 136	10/26/20 07:20	10/26/20 12:22	1
4-Bromofluorobenzene (Surr)	100	79 - 119	10/26/20 07:20	10/26/20 12:22	1
Dibromofluoromethane (Surr)	101	78 - 119	10/26/20 07:20	10/26/20 12:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	9500	J1	86	21	8.8	mg/Kg	☆	10/21/20 12:58	1
Manganese	110	J1	4.8	0.43	0.11	mg/Kg	₩	10/21/20 12:58	1

Client Sample ID: GWTS-2A-101220-FD

Lab Sample ID: 410-17007-18 Date Collected: 10/12/20 09:03 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 88.9

	vietnoa: 82600 DOD - Volat	lie Organic Com	pounas (GC	/IVIS)						
_ A	Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
E	Benzene	0.40	U	5.1	0.40	0.15	ug/Kg	<u></u>	10/26/20 12:44	1
E	Ethylbenzene	0.81	U	5.1	0.81	0.31	ug/Kg	₩	10/26/20 12:44	1
T	oluene	0.81	U	5.1	0.81	0.23	ug/Kg	₩	10/26/20 12:44	1
n	n-Xylene & p-Xylene	3.2	U	3.2	3.2	1.1	ug/Kg	≎	10/26/20 12:44	1
0	-Xylene	0.81	U	5.1	0.81	0.27	ug/Kg	₩	10/26/20 12:44	1
X	(ylenes, Total	1.0	U	10	1.0	0.62	ug/Kg	₩	10/26/20 12:44	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98	85 - 116	10/26/20 07:20	10/26/20 12:44	1
1,2-Dichloroethane-d4 (Surr)	104	71 - 136	10/26/20 07:20	10/26/20 12:44	1
4-Bromofluorobenzene (Surr)	99	79 - 119	10/26/20 07:20	10/26/20 12:44	1
Dibromofluoromethane (Surr)	101	78 - 119	10/26/20 07:20	10/26/20 12:44	1

Method: 6010C - Metals (ICP)

Analyte	Result Qualifier	LOQ	LOD	DL Unit	D	Analyzed	Dil Fac
Iron	11000	74	19	7.7 mg/Kg	<u></u>	10/21/20 13:17	1
Manganese	130	4.2	0.37	0.093 mg/Kg	₩	10/21/20 13:17	1

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Job ID: 410-17007-1

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

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

Matrix: Solid Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(85-116)	(71-136)	(79-119)	(78-119)
410-17007-1	GWTS-1A-101220	99	104	100	100
410-17007-2	GWTS-2A-101220	97	104	99	102
410-17007-4	GWTS-4A-101220	100	103	101	100
410-17007-5	GWTS-5A-101220	98	103	100	101
410-17007-7	GWTS-7A-101220	98	105	100	101
410-17007-17	GWTS-1A-101220-FD	98	103	100	101
410-17007-18	GWTS-2A-101220-FD	98	104	99	101
LCS 280-514059/1-A	Lab Control Sample	100	97	98	100
LCSD 280-514059/2-A	Lab Control Sample Dup	97	97	98	99
MB 280-514059/3-A	Method Blank	97	101	100	100

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(89-112)	(81-118)	(85-114)	(80-119)
410-17007-8	GWTS-TB01-101220	99	93	105	99
410-17007-16	GWTS-TB02-101220	101	106	105	101
LCS 280-513584/4	Lab Control Sample	99	92	99	99
MB 280-513584/9	Method Blank	99	104	96	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

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

Lab Sample ID: MB 280-513584/9

Matrix: Water

Analysis Batch: 513584

Client Sam	ole ID:	Method	Blank
	Prep '	Type: To	tal/NA

MB	MB							
Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
0.40	U	1.0	0.40	0.16	ug/L		10/22/20 10:36	1
0.40	U	1.0	0.40	0.16	ug/L		10/22/20 10:36	1
0.40	U	1.0	0.40	0.17	ug/L		10/22/20 10:36	1
0.80	U	2.0	0.80	0.15	ug/L		10/22/20 10:36	1
0.40	U	1.0	0.40	0.19	ug/L		10/22/20 10:36	1
0.80	U	1.0	0.80	0.19	ug/L		10/22/20 10:36	1
	0.40 0.40 0.40 0.80 0.40	MB MB Result Qualifier 0.40 U 0.40 U 0.40 U 0.80 U 0.40 U 0.80 U 0.80 U	Result Qualifier LOQ 0.40 U 1.0 0.40 U 1.0 0.40 U 1.0 0.80 U 2.0 0.40 U 1.0	Result Qualifier LOQ LOD 0.40 U 1.0 0.40 0.40 U 1.0 0.40 0.40 U 1.0 0.40 0.80 U 2.0 0.80 0.40 U 1.0 0.40	Result Qualifier LOQ LOD DL 0.40 U 1.0 0.40 0.16 0.40 U 1.0 0.40 0.16 0.40 U 1.0 0.40 0.17 0.80 U 2.0 0.80 0.15 0.40 U 1.0 0.40 0.19	Result Qualifier LOQ LOD DL Unit 0.40 U 1.0 0.40 0.16 ug/L 0.40 U 1.0 0.40 0.16 ug/L 0.40 U 1.0 0.40 0.17 ug/L 0.80 U 2.0 0.80 0.15 ug/L 0.40 U 1.0 0.40 0.19 ug/L	Result Qualifier LOQ LOD DL Unit D 0.40 U 1.0 0.40 0.16 ug/L ug/L 0.40 U 1.0 0.40 0.16 ug/L 0.80 U 2.0 0.80 0.15 ug/L 0.40 U 1.0 0.40 0.19 ug/L	Result Qualifier LOQ LOD DL Unit D Analyzed 0.40 U 1.0 0.40 0.16 ug/L 10/22/20 10:36 0.40 U 1.0 0.40 0.16 ug/L 10/22/20 10:36 0.40 U 1.0 0.40 0.17 ug/L 10/22/20 10:36 0.80 U 2.0 0.80 0.15 ug/L 10/22/20 10:36 0.40 U 1.0 0.40 0.19 ug/L 10/22/20 10:36

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed Toluene-d8 (Surr) 99 89 - 112 10/22/20 10:36 1,2-Dichloroethane-d4 (Surr) 104 81 - 118 10/22/20 10:36 96 85 - 114 4-Bromofluorobenzene (Surr) 10/22/20 10:36 Dibromofluoromethane (Surr) 98 80 - 119 10/22/20 10:36

Lab Sample ID: LCS 280-513584/4

Matrix: Water

Analysis Batch: 513584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	26.8		ug/L		107	79 - 120	
Ethylbenzene	25.0	27.4		ug/L		109	79 - 121	
Toluene	25.0	26.6		ug/L		106	80 - 121	
m-Xylene & p-Xylene	25.0	27.1		ug/L		108	80 - 121	
o-Xylene	25.0	28.1		ug/L		113	78 - 122	
Xylenes, Total	50.0	55.2		ug/L		110	79 - 121	

LCS LCS Surrogate %Recovery Qualifier Limits Toluene-d8 (Surr) 99 89 - 112 1,2-Dichloroethane-d4 (Surr) 92 81 - 118 85 - 114 4-Bromofluorobenzene (Surr) 99 Dibromofluoromethane (Surr) 80 - 119 99

Lab Sample ID: MB 280-514059/3-A

Matrix: Solid

Analysis Batch: 514060

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 514059

MB	MB							
Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
0.40	U	5.0	0.40	0.15	ug/Kg		10/26/20 09:00	1
0.80	U	5.0	0.80	0.31	ug/Kg		10/26/20 09:00	1
0.80	U	5.0	0.80	0.23	ug/Kg		10/26/20 09:00	1
3.2	U	3.2	3.2	1.0	ug/Kg		10/26/20 09:00	1
0.80	U	5.0	0.80	0.27	ug/Kg		10/26/20 09:00	1
1.0	U	10	1.0	0.61	ug/Kg		10/26/20 09:00	1
	Result 0.40 0.80 0.80 3.2 0.80	MB MB Result Qualifier 0.40 U 0.80 U 0.80 U 3.2 U 0.80 U 1.0 U	Result Qualifier LOQ 0.40 U 5.0 0.80 U 5.0 0.80 U 5.0 3.2 U 3.2 0.80 U 5.0	Result Qualifier LOQ LOD 0.40 U 5.0 0.40 0.80 U 5.0 0.80 0.80 U 5.0 0.80 3.2 U 3.2 3.2 0.80 U 5.0 0.80	Result Qualifier LOQ LOD DL 0.40 U 5.0 0.40 0.15 0.80 U 5.0 0.80 0.31 0.80 U 5.0 0.80 0.23 3.2 U 3.2 3.2 1.0 0.80 U 5.0 0.80 0.27	Result Qualifier LOQ LOD DL Unit 0.40 U 5.0 0.40 0.15 ug/Kg 0.80 U 5.0 0.80 0.31 ug/Kg 0.80 U 5.0 0.80 0.23 ug/Kg 3.2 U 3.2 3.2 1.0 ug/Kg 0.80 U 5.0 0.80 0.27 ug/Kg	Result Qualifier LOQ LOD DL ug/Kg Unit D 0.40 U 5.0 0.40 0.15 ug/Kg ug/Kg 0.80 U 5.0 0.80 0.31 ug/Kg 0.80 U 5.0 0.80 0.23 ug/Kg 3.2 U 3.2 3.2 1.0 ug/Kg 0.80 U 5.0 0.80 0.27 ug/Kg	Result Qualifier LOQ LOD DL Unit D Analyzed 0.40 U 5.0 0.40 0.15 ug/Kg 10/26/20 09:00 0.80 U 5.0 0.80 0.31 ug/Kg 10/26/20 09:00 0.80 U 5.0 0.80 0.23 ug/Kg 10/26/20 09:00 3.2 U 3.2 3.2 1.0 ug/Kg 10/26/20 09:00 0.80 U 5.0 0.80 0.27 ug/Kg 10/26/20 09:00

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97	85 - 116	10/26/20 07:20	10/26/20 09:00	1
1,2-Dichloroethane-d4 (Surr)	101	71 - 136	10/26/20 07:20	10/26/20 09:00	1
4-Bromofluorobenzene (Surr)	100	79 - 119	10/26/20 07:20	10/26/20 09:00	1

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

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

Lab Sample ID: MB 280-514059/3-A

Matrix: Solid

Analysis Batch: 514060

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 514059

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 10/26/20 07:20 10/26/20 09:00 Dibromofluoromethane (Surr) 100 78 - 119

Lab Sample ID: LCS 280-514059/1-A

Lab Sample ID: LCSD 280-514059/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 514060

Analysis Batch: 514060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 514059

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	48.0		ug/Kg		96	77 - 121	
Ethylbenzene	50.0	50.1		ug/Kg		100	76 - 122	
Toluene	50.0	48.6		ug/Kg		97	77 - 121	
m-Xylene & p-Xylene	50.0	52.0		ug/Kg		104	77 - 124	
o-Xylene	50.0	49.3		ug/Kg		99	77 - 123	
Xylenes, Total	100	101		ug/Kg		101	78 - 124	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		85 - 116
1,2-Dichloroethane-d4 (Surr)	97		71 - 136
4-Bromofluorobenzene (Surr)	98		79 - 119
Dibromofluoromethane (Surr)	100		78 - 119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 514059

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	53.6		ug/Kg		107	77 - 121	11	20
Ethylbenzene	50.0	54.7		ug/Kg		109	76 - 122	9	20
Toluene	50.0	53.8		ug/Kg		108	77 - 121	10	20
m-Xylene & p-Xylene	50.0	56.2		ug/Kg		112	77 - 124	8	20
o-Xylene	50.0	53.6		ug/Kg		107	77 - 123	8	20
Xylenes, Total	100	110		ug/Kg		110	78 - 124	8	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	97		85 - 116
1,2-Dichloroethane-d4 (Surr)	97		71 - 136
4-Bromofluorobenzene (Surr)	98		79 - 119
Dibromofluoromethane (Surr)	99		78 - 119

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-512651/1-A

Matrix: Solid

Analysis Batch: 512939

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 512651

	MB	MB							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	20	U	80	20	8.3	mg/Kg		10/16/20 11:34	1
Manganese	0.40	U	4.5	0.40	0.10	mg/Kg		10/16/20 11:34	1

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Job ID: 410-17007-1

Client Sample ID: Lab Control Sample

Client Sample ID: GWTS-1A-101220

Client Sample ID: GWTS-1A-101220

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: GWTS-1A-101220-FD

mg/Kg

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

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

Lab Sample ID: LCS 280-512651/2-A

Matrix: Solid							Prep Type: Total/NA
Analysis Batch: 512939							Prep Batch: 512651
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Iron	1000	970		mg/Kg		97	81 - 118
Manganese	100	95.2		mg/Kg		95	84 _ 114

Lab Sample ID: 410-17007-1 MS

Matrix: Solid

Analysis Batch: 512939									Prep Batch: 5126	3 5 1
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	9600	J1	815	9970	4	mg/Kg	⊅	51	81 - 118	
Manganese	140	J1	81.5	184	J1	mg/Kg	☼	59	84 - 114	

Lab Sample ID: 410-17007-1 MSD

Matrix: Solid

Analysis Batch: 512939									Prep Ba	tch: 51	12651
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	9600	J1	864	9640	4	mg/Kg	<u></u>	9	81 - 118	3	20
Manganese	140	J1	86.4	185	J1	mg/Kg	☼	56	84 - 114	1	20

Lab Sample ID: MB 280-513218/1-A

Matrix: Solid

Analysis Batch: 513521								Prep Batch:	513218
-	MB	MB						•	
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	20	U	80	20	8.3	mg/Kg		10/21/20 12:51	1
Manganese	0.40	U	4.5	0.40	0.10	mg/Kg		10/21/20 12:51	1

Lab Sample ID: LCS 280-513218/2-A

Matrix: Solid

Analysis Batch: 513521							Prep Ba	atch: 513218
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	1000	955		mg/Kg		96	81 - 118	
Manganese	100	91.1		mg/Kg		91	84 - 114	

Lab Sample ID: 410-17007-17 MS

Matrix: Solid

Analysis Batch: 513521									Prep Batch: 513218	í
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	9500	J1	985	9350	4	mg/Kg	☼	-16	81 - 118	
Manganese	110	J1	98.5	178	J1	ma/Ka	₩	72	84 - 114	

Lab Sample ID: 410-17007-17 MSD

Matrix: Solid

Matrix: Cond									i icp iy	pc. ioi	MI/ITA
Analysis Batch: 513521									Prep Ba	atch: 5	13218
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	9500	J1	1030	9930	4	mg/Kg	≎	42	81 - 118	6	20
Manganese	110	J1	103	187	J1	mg/Kg	≎	77	84 - 114	5	20

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Client Sample ID: GWTS-1A-101220-FD

Prep Type: Total/NA

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

GC/MS VOA

Analysis Batch: 513584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-8	GWTS-TB01-101220	Total/NA	Water	8260C DOD	
410-17007-16	GWTS-TB02-101220	Total/NA	Water	8260C DOD	
MB 280-513584/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 280-513584/4	Lab Control Sample	Total/NA	Water	8260C DOD	

Prep Batch: 514059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	5030B	
410-17007-2	GWTS-2A-101220	Total/NA	Solid	5030B	
410-17007-4	GWTS-4A-101220	Total/NA	Solid	5030B	
410-17007-5	GWTS-5A-101220	Total/NA	Solid	5030B	
410-17007-7	GWTS-7A-101220	Total/NA	Solid	5030B	
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	5030B	
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	5030B	
MB 280-514059/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 280-514059/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-514059/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 514060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	8260C DOD	514059
410-17007-2	GWTS-2A-101220	Total/NA	Solid	8260C DOD	514059
410-17007-4	GWTS-4A-101220	Total/NA	Solid	8260C DOD	514059
410-17007-5	GWTS-5A-101220	Total/NA	Solid	8260C DOD	514059
410-17007-7	GWTS-7A-101220	Total/NA	Solid	8260C DOD	514059
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	8260C DOD	514059
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	8260C DOD	514059
MB 280-514059/3-A	Method Blank	Total/NA	Solid	8260C DOD	514059
LCS 280-514059/1-A	Lab Control Sample	Total/NA	Solid	8260C DOD	514059
LCSD 280-514059/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C DOD	514059

Metals

Prep Batch: 512651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	3050B	
410-17007-2	GWTS-2A-101220	Total/NA	Solid	3050B	
410-17007-4	GWTS-4A-101220	Total/NA	Solid	3050B	
410-17007-5	GWTS-5A-101220	Total/NA	Solid	3050B	
410-17007-7	GWTS-7A-101220	Total/NA	Solid	3050B	
MB 280-512651/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-512651/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-17007-1 MS	GWTS-1A-101220	Total/NA	Solid	3050B	
410-17007-1 MSD	GWTS-1A-101220	Total/NA	Solid	3050B	

Analysis Batch: 512939

Lab Sample ID 410-17007-1	Client Sample ID GWTS-1A-101220	Prep Type Total/NA	Matrix Solid	Method 6010C	Prep Batch 512651
410-17007-2	GWTS-2A-101220	Total/NA	Solid	6010C	512651
410-17007-4	GWTS-4A-101220	Total/NA	Solid	6010C	512651
410-17007-5	GWTS-5A-101220	Total/NA	Solid	6010C	512651

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QC Association Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Metals (Continued)

Analysis Batch: 512939 (Continued)

Lab Sample ID 410-17007-7	Client Sample ID GWTS-7A-101220	Prep Type Total/NA	Solid	Method 6010C	Prep Batch 512651
MB 280-512651/1-A	Method Blank	Total/NA	Solid	6010C	512651
LCS 280-512651/2-A	Lab Control Sample	Total/NA	Solid	6010C	512651
410-17007-1 MS	GWTS-1A-101220	Total/NA	Solid	6010C	512651
410-17007-1 MSD	GWTS-1A-101220	Total/NA	Solid	6010C	512651

Prep Batch: 513218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	3050B	
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	3050B	
MB 280-513218/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-513218/2-A	Lab Control Sample	Total/NA	Solid	3050B	
410-17007-17 MS	GWTS-1A-101220-FD	Total/NA	Solid	3050B	
410-17007-17 MSD	GWTS-1A-101220-FD	Total/NA	Solid	3050B	

Analysis Batch: 513521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	6010C	513218
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	6010C	513218
MB 280-513218/1-A	Method Blank	Total/NA	Solid	6010C	513218
LCS 280-513218/2-A	Lab Control Sample	Total/NA	Solid	6010C	513218
410-17007-17 MS	GWTS-1A-101220-FD	Total/NA	Solid	6010C	513218
410-17007-17 MSD	GWTS-1A-101220-FD	Total/NA	Solid	6010C	513218

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220

Date Collected: 10/12/20 09:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-1

Matrix: Solid

Percent Solids: 90.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 10:30	GPM	TAL DEN
Total/NA	Prep	3050B			512651	10/15/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	512939	10/16/20 11:41	MRJ	TAL DEN

Client Sample ID: GWTS-2A-101220 Lab Sample ID: 410-17007-2

Date Collected: 10/12/20 09:03 Matrix: Solid
Date Received: 10/13/20 09:15 Percent Solids: 89.3

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA Prep 5030B 514059 10/26/20 07:20 GPM TAL DEN Total/NA 8260C DOD Analysis 514060 10/26/20 10:52 GPM TAL DEN 1 Total/NA Prep 3050B 512651 10/15/20 15:40 EC TAL DEN Total/NA 512939 10/16/20 12:11 MRJ TAL DEN Analysis 6010C 1

Client Sample ID: GWTS-4A-101220 Lab Sample ID: 410-17007-4

 Date Collected: 10/12/20 09:09
 Matrix: Solid

 Date Received: 10/13/20 09:15
 Percent Solids: 90.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 11:15	GPM	TAL DEN
Total/NA	Prep	3050B			512651	10/15/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	512939	10/16/20 12:15	MRJ	TAL DEN

Client Sample ID: GWTS-5A-101220 Lab Sample ID: 410-17007-5

Date Collected: 10/12/20 09:11

Matrix: Solid

Date Received: 10/13/20 09:15

Percent Solids: 88.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 11:37	GPM	TAL DEN
Total/NA	Prep	3050B			512651	10/15/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	512939	10/16/20 12:18	MRJ	TAL DEN

Client Sample ID: GWTS-7A-101220 Lab Sample ID: 410-17007-7

Date Collected: 10/12/20 09:17

Date Received: 10/13/20 09:15

Matrix: Solid
Percent Solids: 95.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 11:59	GPM	TAL DEN
Total/NA	Prep	3050B			512651	10/15/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	512939	10/16/20 12:21	MRJ	TAL DEN

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-TB01-101220

Date Collected: 10/12/20 13:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	513584	10/22/20 10:57	JLS	TAL DEN

Client Sample ID: GWTS-TB02-101220

Date Collected: 10/12/20 13:00

Lab Sample ID: 410-17007-16

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD			513584	10/22/20 11:19	JLS	TAL DEN

Client Sample ID: GWTS-1A-101220-FD

Date Collected: 10/12/20 09:00

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-17

Matrix: Solid

Date Received: 10/13/20 09:15 Percent Solids: 90.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 12:22	GPM	TAL DEN
Total/NA	Prep	3050B			513218	10/20/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	513521	10/21/20 12:58	LMT	TAL DEN

Client Sample ID: GWTS-2A-101220-FD

Lab Sample ID: 410-17007-18 Date Collected: 10/12/20 09:03

Matrix: Solid

Date Received: 10/13/20 09:15 Percent Solids: 88.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			514059	10/26/20 07:20	GPM	TAL DEN
Total/NA	Analysis	8260C DOD		1	514060	10/26/20 12:44	GPM	TAL DEN
Total/NA	Prep	3050B			513218	10/20/20 15:40	EC	TAL DEN
Total/NA	Analysis	6010C		1	513521	10/21/20 13:17	LMT	TAL DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21

Method Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL DEN
3050B	Preparation, Metals	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-17007-1	GWTS-1A-101220	Solid	10/12/20 09:00	10/13/20 09:15
410-17007-2	GWTS-2A-101220	Solid	10/12/20 09:03	10/13/20 09:15
410-17007-4	GWTS-4A-101220	Solid	10/12/20 09:09	10/13/20 09:15
410-17007-5	GWTS-5A-101220	Solid	10/12/20 09:11	10/13/20 09:15
410-17007-7	GWTS-7A-101220	Solid	10/12/20 09:17	10/13/20 09:15
10-17007-8	GWTS-TB01-101220	Water	10/12/20 13:00	10/13/20 09:15
10-17007-16	GWTS-TB02-101220	Water	10/12/20 13:00	10/13/20 09:15
410-17007-17	GWTS-1A-101220-FD	Solid	10/12/20 09:00	10/13/20 09:15
410-17007-18	GWTS-2A-101220-FD	Solid	10/12/20 09:03	10/13/20 09:15

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PROJECT NAME. Kirtland AFB Bulk Fuels Facility PROJECT SITE AND PROJECT NUMBER SAMPLE IDENTIFIER 1 GWTS-1A-101220 3 GWTS-2A-101220 4 GWTS-4A-101220	1001	LABORATORY NAME AND CONTACT: Eurofins TestAmerica 4955 Yarrow Street Arvada, CO 80002 LAB PO NUMBER: 21295 172/2020	VC		FAX	FAX AND MAIL REPORTS/EDD TO: Tara Lamond	IL REPOF	T CATOLT	Tare !			flamond@eaest.com	st.com EA	\			000-000
SAMPLE ID -1A-10 -3A-10	4955 Yarrow Stre Arvada, CO 800 LAB PO NUMBER. 21295 10/12/2020 10/12/2020	O A O S	VO					Circo	Amane	Tara Lamond: Amanda Smith:		asmith@eaest.com		_	YEAR:	2020	
	DATE COLLECTED 10/12/2020 10/12/2	MME COLLECTED O 9 0 0 O 10 0 3	V		FA	AND MA	AL REPOF	FAX AND MAIL REPORTS/EDD TO Pam Moss.	O Pam	Moss		pmoss@eaest.com	com EA	QUA	QUARTER:	94	
GWTS- GWTS- GWTS- GWTS-	10/12/2020 10/12/2020	IME COLLECTED O 9 0 0 O 9 0 5	VC		3	SCONTA	LAB CONTACT: Kay Hower	ower	KayHc	KayHower@eurofinsUS.com	rofinsUS	S.com	Eurofins 1 (1 (717) 556-7258			
GWTS- GWTS- GWTS- GWTS-	10/12/2020 10/12/2020	O 9 0 C	V		AN	ANALYSIS	SREOL	REQUIRED (S	(Specify number of bottles)	numbe	er of bo	ottles)					
		300	OCs ber of Bottles	(8260C) BTEX (8260C)	(8260C) BTEXN	(8011) EDB/EDB Soil	Dissolved Fe, Mn+BTEX (6020A/6010C) Total As, Pb, Ca, K, Na, Mg	Chloride, bromide, sulfate (6010C)+8260C	(353.2) Nitrate-Nitrite (300.0)	(SM4500NH3) Ammonia	(SM4500S2CF) Sulfide	(SM2320B) Alkalinity		COMMENTS	ENTS		
		0	2	1	1	-	-	+	1	1	1	1					
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	0000,07,07	9060	-	1	1	-	1	1	1	1	1	1					
	10/12/2020	6000	- 2	1	1	-	-	1	1	1	1	1					
⁵ GWTS-5A-101220	10/12/2020	1160	- 2	1	1	-		1	1	1	1	1					
⁶ GWTS-6A-101220	10/12/2020	4160	-	1	1	-	1	1	1	1	1	1					
Please give all samples a 5-Day rush turn around	a 5-Day rush turn	around							3.4 ICH 11-6.3	45	ーサ	0-	3 823		114	UZ/ H1/ 01	
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Control Note Finder Street Control Note Con			225 Schiling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000		O	HA	ż	P.	CHAIN-OF-CUSTODY RECORD	S	0	\succeq	R	S	N N			000	COC-GWTS2-101220	D1220
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1,020 O Water 1,070 O Wate				4955 Yarrow St Arvada, CO 80	reet 002				FAX AND	MAIL R	EPORTS	EDD TO	Pam N	.550	pmoss	@eaest.		QUART		
SAMPLE DENITIER NATE COLLECTED TWE COLLE	PROJECT SITE	AND SS111		LAB PO NUMBER 21295					LAB COI	VTACT: H	(ay Howe	,	Kay	ower@ei	rofinsU:	S.com		7) 556-7258		
SAMPE DENTIFER WITE COLLECTED THE COLLEC							ANA	LYSIS	REGU	RED (Specify	numbe	er of b	ottles)						
VTS-TA-101220 10/12/2020 0 9 1 〒 2 1 1 1 1	TEM	SAMPLE	DENTIFIER	DATE COLLECTED	TIME COLLECTED		(8260C)	(8260C)	EDB/EDB Soil (8260C)	Total As, Pb, Ca, K, Na, Mg	Dissolved Fe, Mn+BTEX		Nitrate-Nitrite					COMMEI	urs	
See give all samples a 5-Day rush turn around 10/12/2020 3 ら し		VTS-7A-10	01220	10/12/2020	09	2	1			1	-	1	1	1	Î	1				
See give all samples a 5-Day rush turn around Living Strain RELINOUSHED BY RECEIVED BY		VTS-TB01	-101220	10/12/2020		7	1	2	- 2	i	;	1	į	1	1	1				
See give all samples a 5-Day rush turn around Lichty Structure RELINQUISHED BY: RECEIVED BY: RECEIVE	3																			
See give all samples a 5-Day rush turn around Lichary fraction in Signature. Period Signature. and Signature. Printed Name and Signature. Printed Name and Signature.	4																			
See give all samples a 5-Day rush turn around COURIER AND SHIPPING NUMBER. Fedex: TIME Printed Name and Signature. Printed Name and Signature. Printed Name and Signature. Printed Name and Signature.	2						-													
See give all samples a 5-Day rush turn around Living Structure. RECINED BY: Printed Name and Signature. Printed Name and Signature. Printed Name and Signature.	9																			
COURTER AND SHIPPING NUMBER. Fedex: RELINQUISHED BY. and Signature. and Signature. Printed Name and Signature. Printed Name and Signature. Printed Name and Signature.	Plea	ise give al	Il samples a 5	-Day rush tur	n around															
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ACTWGT: 51.75 LB CAD: 6995204/SSFE213

DITE

BILL THIRD PARTY

EA ENGINEERING 320 GOLD AVE SW

ALBUQUERQUE, NM 87102 UNITED STATES US

 ATTN: DARLENE BANDY EUROFINS TESTAMERICA 4955 YARROW ST

RVADA CO 80002

650

10:30

828 10.13

(303) 736 - 0100 1HU: PO:



FedEx

TRK# 3977 5166 8287

VHIAAA

TUE - 13 OCT 10:30A PRIORITY OVERNIGHT AHS 80002

CO-US DEN



EA ENGINEERING 320 GOLD AVE SW ORIGIN ID: ONMA

(505) 224-9013

ACTWGT: 51.75 LB CAD: 6995204/SSFE2121 DIMS: 24×14×14 IN

BILL THIRD PARTY

ALBUQUERQUE, NM 87102 UNITED STATES US

ATTN: DARLENE BANDY **EUROFINS TESTAMERICA**

4955 YARROW ST



FedEx

ARVADA CO 80002

10/28/2020

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80002 co-us DEN



ALBUQUERQUE, NM 87102 UNITED STATES US EUROFINS TESTAMERICA 4955 YARROW ST ATTN: DARLENE BANDY BILL THIRD PARTY

(505) 224-9013

Page 30 of 37

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Europhic Market Amount Act FWA AND MAIL REPORTS BEDD OT Dam Mass Recommendations and the control of the c		8	225 Schiling Circle Suite 400 Hunt Vatley MD Tet No. (410) 584-7600 Fax No. (410) 771-1625		ਂ	¥	Z	- - -	CO	ST	CHAIN-OF-CUSTODY RECORD	Y	(EC	Ö	20			9-202	COC-GWTS1-101220	J1220
ANALYSIS VERMS ANALYSIS NEED ANALYSIS NE	PROJECT AFB Bulk	NAME: Kirdand Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NA Eurofins TestAm	ME AND CONTACT:			Œ	AX AND M	AIL REP	ORTS/ED	D TO: Ta	ara Lamoi landa Sm	1.2	mond@ea mith@eae	E		YEAR	2020	
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AMALYSIS REQUIRED AMALYSIS REQUIRED (Specify number of bottles) COMMERTS	PROJECT PHASE: S	SITE AND T106/SS111		21295					AB CONT.	ACT: Kay	/ Hower	Α	yHower	geurafin	sUS.com	Eurofins	1 (717) 5	56-7258		
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ROJEC FB Bu	PROJECT NAME: Kirtland AFB Bulk Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NAME	LABORATORY NAME AND CONTACT: Eurofins TestAmerica	ACT:			FAX AND MAIL REPORTS/EDD TO: Tara Lamond	MAILRE	EPORTS	ÆDD TO	Tara L.	Tara Lamond: Amanda Smith:	tlamo	tlamond@eaest.com asmith@eaest.com	st.com EA	YE	YEAR: 2020	
			4955 Yarrow Street Arvada, CO 80002	reet 002				FAX AND MAIL REPORTS/EDD TO: Pam Moss:	MAIL R	EPORTS	/EDD TO	Pam N	Noss:	pmosi	pmoss@eaest.com		QUARTER	TER. Q4	
ROJEC	PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER. 21295	~				LAB CONTACT: Kay Hower	TACT: H	(ay Howe	J.	Kayh	KayHower@eurofinsUS.com	urofinst	/S.com	Eurofins 1 (7	1 (717) 556-7258		
			The state of the s		-	ANA	YSIS	ANALYSIS REQUIRED (Specify number of bottles)	RED (Specify	/ numb	er of b	ottles)						
ITEM	SAMPLE IDENTIFIER	JENTIFIER	DATE COLLECTED	TIME COLLECTED	VOCs Total Number of Bottles	(8260C)	BTEXN (8260C)	(8011) EDB/EDB Soil (8260C)	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C)+8260C Dissolved Fe, Mn+BTEX	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM4500NH3) Ammonia	(SM4500S2CF) Sulfide	(SM2320B) Alkalinity		COMMENTS	ENTS	
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Client: EA Engineering, Science, and Technology

Job Number: 410-17007-1

Login Number: 17007
List Number: 2

Creator: O'Hara, Jake F

List Source: Eurofins TestAmerica, Denver List Creation: 10/13/20 08:22 PM

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

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Client: EA Engineering, Science, and Technology

Job Number: 410-17007-1

Login Number: 17007 List Source: Eurofins TestAmerica, Denver
List Number: 3 List Creation: 10/13/20 08:23 PM

Creator: O'Hara, Jake F

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

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Client: EA Engineering, Science, and Technology

Job Number: 410-17007-1

Login Number: 17007 List Source: Eurofins TestAmerica, Denver
List Number: 4 List Creation: 10/14/20 08:01 PM

Creator: Pottruff, Reed W

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

True

True

N/A

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Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

Client: EA Engineering, Science, and Technology Job Number: 410-17007-1

Login Number: 17007 List Number: 5

Creator: Pottruff, Reed W

List Source: Eurofins TestAmerica, Denver

List Creation: 10/14/20 08:01 PM

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

Client: EA Engineering, Science, and Technology

Job Number: 410-17007-1

Login Number: 17007 List Source: Eurofins TestAmerica, Denver
List Number: 6 List Creation: 10/16/20 12:51 PM

Creator: O'Hara, Jake F

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

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Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-17007-2

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology 405 S. Highway 121 bypass Building C Suite 100 Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by: 10/28/2020 11:09:33 AM

Darlene Bandy, Project Manager I (303)736-0188

Darlene.Bandy@Eurofinset.com

LINKS

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

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

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

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

- * Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- * Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy

Project Manager I

10/28/2020 11:09:33 AM

Darlene Bandy

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Definitions/Glossary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 U
 Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

1C Result is from the primary column on a dual-column method.

2C Result is from the confirmation column on a dual-column method.

CFL Contains Free Liquid

CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Job ID: 410-17007-2

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17007-2

Comments

No additional comments.

Receipt

The samples were received on 10/13/2020 9:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 3.1° C.

Receipt Exceptions

The samples in job 410-17007-1 were shipped directly to Eurofins TestAmerica Denver by the client. The inter-company COC (ICOC) was generated only because, since the samples were logged by Eurofins Lancaster Laboratories Environment, they needed to be "shipped" in the LIMS in order for ETA Denver to receive them.

GWTS-1A-101220 (410-17007-1), GWTS-2A-101220 (410-17007-2), GWTS-3A-101220 (410-17007-3), GWTS-4A-101220 (410-17007-4), GWTS-5A-101220 (410-17007-5), GWTS-6A-101220 (410-17007-6), GWTS-7A-101220 (410-17007-7), GWTS-TB01-101220 (410-17007-8), GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14), GWTS-14A-101220 (410-17007-15), GWTS-TB02-101220 (410-17007-16), GWTS-1A-101220-FD (410-17007-17) and GWTS-2A-101220-FD (410-17007-18)

As requested by the client, two of the samples were also logged as field duplicates. Sample GWTS-1A-101220 (410-17007-1) was also logged as sample GWTS-1A-101220-FD (410-17007-17). Sample GWTS-2A-101220 (410-17007-2) was also logged as sample GWTS-2A-101220-FD (410-17007-18).

One cooler was delayed by FedEx, and was received at the laboratory on 10/14/2020. It is noted that this cooler was received within temperature requirements. Due to the delay in sample receipt, the turnaround time began on 10/14/2020.

Containers for these samples were received 10/13/2020: GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14). GWTS-14A-101220 (410-17007-15) and GWTS-TB02-101220 (410-17007-16)

The client needed the 8011 data as soon as possible; therefore, the 8011 and % Moisture methods were split off into job series 410-17007-2, with a faster turnaround time. All other methods on the chain of custody are reported under SDG 410-17007-1. GWTS-1A-101220 (410-17007-1), GWTS-2A-101220 (410-17007-2), GWTS-3A-101220 (410-17007-3), GWTS-4A-101220 (410-17007-4), GWTS-5A-101220 (410-17007-5), GWTS-6A-101220 (410-17007-6), GWTS-7A-101220 (410-17007-7), GWTS-TB01-101220 (410-17007-8), GWTS-8A-101220 (410-17007-9), GWTS-9A-101220 (410-17007-10), GWTS-10A-101220 (410-17007-11), GWTS-11A-101220 (410-17007-12), GWTS-12A-101220 (410-17007-13), GWTS-13A-101220 (410-17007-14), GWTS-14A-101220 (410-17007-15), GWTS-TB02-101220 (410-17007-16), GWTS-1A-101220-FD (410-17007-17) and GWTS-2A-101220-FD (410-17007-18)

GC Semi VOA

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

General Chemistry

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

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Detection Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility	Job ID: 410-17007-2
Client Sample ID: GWTS-1A-101220	Lab Sample ID: 410-17007-1
No Detections.	
Client Sample ID: GWTS-2A-101220	Lab Sample ID: 410-17007-2
No Detections.	
Client Sample ID: GWTS-3A-101220	Lab Sample ID: 410-17007-3
No Detections.	
Client Sample ID: GWTS-4A-101220	Lab Sample ID: 410-17007-4
No Detections.	
Client Sample ID: GWTS-5A-101220	Lab Sample ID: 410-17007-5
No Detections.	
Client Sample ID: GWTS-6A-101220	Lab Sample ID: 410-17007-6
No Detections.	
Client Sample ID: GWTS-7A-101220	Lab Sample ID: 410-17007-7
No Detections.	
Client Sample ID: GWTS-TB01-101220	Lab Sample ID: 410-17007-8
No Detections.	
Client Sample ID: GWTS-8A-101220	Lab Sample ID: 410-17007-9
No Detections.	
Client Sample ID: GWTS-9A-101220	Lab Sample ID: 410-17007-10
No Detections.	
Client Sample ID: GWTS-10A-101220	Lab Sample ID: 410-17007-11
No Detections.	
Client Sample ID: GWTS-11A-101220	Lab Sample ID: 410-17007-12
No Detections.	
Client Sample ID: GWTS-12A-101220	Lab Sample ID: 410-17007-13
No Detections.	
Client Sample ID: GWTS-13A-101220	Lab Sample ID: 410-17007-14
No Detections.	
Client Sample ID: GWTS-14A-101220	Lab Sample ID: 410-17007-15
No Detections.	
Client Sample ID: GWTS-1A-101220-FD	Lab Sample ID: 410-17007-17
No Detections.	

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Client Sample ID: GWTS-2A-101220-FD

Lab Sample ID: 410-17007-18

No Detections.

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220

Date Collected: 10/12/20 09:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-1

Matrix: Solid

Percent Solids: 90.2

Job ID: 410-17007-2

Method: 8011 - ED	B, DBCP, and	1,2,3-TCP	(GC)
	,, ,	.,,	(,

Result Qualifier LOQ LOD Analyte DL Unit D Analyzed Dil Fac Ethylene Dibromide (1C) 0.042 U 0.11 0.042 10/15/20 18:36 0.017 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 95 55 - 130 10/15/20 10:02 10/15/20 18:36

General Chemistry

Analyte Result Qualifier LOQ LOD DL Unit D Analyzed Dil Fac **Percent Moisture** 9.8 0.1 0.05 0.1 % 10/22/20 14:03 **Percent Solids** 0.1 0.05 0.1 % 10/22/20 14:03 90.2

Client Sample ID: GWTS-2A-101220

Date Collected: 10/12/20 09:03

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-2

Lab Sample ID: 410-17007-3

Matrix: Solid Percent Solids: 89.3

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

Result Qualifier Analyte LOQ LOD DL Unit Analyzed Dil Fac D 0.043 U 10/15/20 18:57 Ethylene Dibromide (1C) 0.11 0.043 0.017 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 10/15/20 10:02 10/15/20 18:57 92 55 - 130

General Chemistry

Analyte Result Qualifier LOQ LOD DL Unit Dil Fac D Analyzed **Percent Moisture** 0.1 0.05 0.1 % 10/22/20 14:03 10.7 0.1 0.05 0.1 % **Percent Solids** 10/22/20 14:03 89.3

Client Sample ID: GWTS-3A-101220

Date Collected: 10/12/20 09:06

Matrix: Solid Date Received: 10/13/20 09:15 Percent Solids: 95.8

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

Result Qualifier LOQ LOD Analyte DL Unit ח Analyzed Dil Fac 10/15/20 19:19 Ethylene Dibromide (1C) 0.040 U 0.10 0.040 0.016 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 95 55 - 130 10/15/20 10:02 10/15/20 19:19

General Chemistry

Analyte Result Qualifier LOQ LOD DL Unit D Analyzed Dil Fac 0.1 0.05 0.1 % 10/22/20 14:03 **Percent Moisture** 4.2 **Percent Solids** 95.8 0.1 0.05 0.1 % 10/22/20 14:03

Client Sample ID: GWTS-4A-101220

Lab Sample ID: 410-17007-4 Date Collected: 10/12/20 09:09 **Matrix: Solid** Percent Solids: 90.0

Date Received: 10/13/20 09:15

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) Analyte Result Qualifier LOQ LOD DL Unit D Analyzed Dil Fac 0.042 U M 10/15/20 19:40 Ethylene Dibromide (1C) 0.11 0.042 0.017 ug/Kg

Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 99 55 - 130 10/15/20 10:02 10/15/20 19:40

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-4A-101220

Date Collected: 10/12/20 09:09 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-4

Matrix: Solid

Percent Solids: 90.0

General Chemistry						
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D Analyzed	Dil Fac
Percent Moisture	10.0	0.1	0.05	0.1 %	10/22/20 14:03	1
Percent Solids	90.0	0.1	0.05	0.1 %	10/22/20 14:03	1

Lab Sample ID: 410-17007-5 Client Sample ID: GWTS-5A-101220

Date Collected: 10/12/20 09:11 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 88.8

Analyte	Result Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.043 U	0.11	0.043	0.017	ug/Kg	₽	10/15/20 20:02	1
Surrogate	%Recovery Qualifier	Limits			Prepa	red	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	91	55 - 130			10/15/20	10:02	10/15/20 20:02	1
General Chemistry								
Analyte	Result Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Percent Moisture	11.2	0.1	0.05	0.1	%		10/22/20 14:03	1

Percent Solids 0.1 % 88.8 0.1 0.05 10/22/20 14:03

Client Sample ID: GWTS-6A-101220 Lab Sample ID: 410-17007-6 Date Collected: 10/12/20 09:14 **Matrix: Solid**

Date Received: 10/13/20 09:15 Percent Solids: 87.9

Method: 8011 - EDB, DBCP, a	and 1,2,3-TCP (GC)							
Analyte	Result Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.043 U	0.11	0.043	0.017	ug/Kg	☆	10/15/20 20:23	1
Surrogate	%Recovery Qualifier	Limits			Prepa	red	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	87	55 - 130			10/15/20	10:02	10/15/20 20:23	1
General Chemistry								
Analyte	Result Qualifier	1.00	LOD	DI	Unit	D	Analyzed	Dil Fac

0.1 % **Percent Moisture** 12.1 0.1 0.05 10/22/20 14:03 **Percent Solids** 0.1 0.05 0.1 % 10/22/20 14:03 87.9

Client Sample ID: GWTS-7A-101220 Lab Sample ID: 410-17007-7 Date Collected: 10/12/20 09:17 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 95.5

Analyte	Result Qualifier	LOQ	LOD	DL	Unit D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.040 U	0.10	0.040	0.016	ug/Kg	10/15/20 20:45	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	91	55 - 130			10/15/20 10:02	10/15/20 20:45	1

General Chemistry						
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D Analyzed	Dil Fac
Percent Moisture	4.5	0.1	0.05	0.1 %	10/22/20 14:03	1
Percent Solids	95.5	0.1	0.05	0.1 %	10/22/20 14:03	1

Job ID: 410-17007-2

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-TB01-101220

Lab Sample ID: 410-17007-8 Date Collected: 10/12/20 13:00

Matrix: Water

10/16/20 09:54 10/16/20 15:42

Date Received: 10/13/20 09:15

1,2-Dibromopropane (1C)

Percent Solids

Method: 8011 - EDB, DBCP, a	nd 1,2,3-TCP (GC)						
Analyte	Result Qualifier	LOQ	LOD	DL	Unit	D Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.014 U	0.020	0.014	0.0036	ug/L	10/16/20 15:42	1
Surrogate	%Recovery Qualifier	l imits			Prepared	Analyzed	Dil Fac

Client Sample ID: GWTS-8A-101220 Lab Sample ID: 410-17007-9

70 - 130

103

Date Collected: 10/12/20 09:20 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 95.6

Analyte	Res	ult Qualifier	LOQ	LOD	DL	Unit	O Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.0	40 U	0.10	0.040	0.016	ug/Kg	10/15/20 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	88	M	55 - 130			10/15/20 10:0	2 10/15/20 21:56	1

General Chemistry Analyte Result Qualifier LOQ LOD DL Unit Analyzed Dil Fac 0.1 0.05 0.1 % 10/22/20 22:11 **Percent Moisture** 4.4 **Percent Solids** 95.6 0.1 0.05 0.1 % 10/22/20 22:11

Client Sample ID: GWTS-9A-101220 Lab Sample ID: 410-17007-10 Date Collected: 10/12/20 09:23 **Matrix: Solid**

Date Received: 10/13/20 09:15 Percent Solids: 95.8

Analyte	Result C	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.040	U	0.10	0.040	0.016	ug/Kg	₩	10/15/20 22:18	1
Surrogate	%Recovery Qua	alifier	Limits			Prepa	red	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	75 M		55 - 130			10/15/20	10:02	10/15/20 22:18	1

General Chemistry						
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D Analyzed	Dil Fac
Percent Moisture	4.2	0.1	0.05	0.1 %	10/22/20 22:11	1
Percent Solids	95.8	0.1	0.05	0.1 %	10/22/20 22:11	1

Client Sample ID: GWTS-10A-101220 Lab Sample ID: 410-17007-11 Date Collected: 10/12/20 09:26 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 91.3

Date Received. 10/10/20 03	7.10					r ercent done	3. 31.3
- Method: 8011 - EDB, DBC	P, and 1,2,3-TCP (GC)						
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.042 U	0.11	0.042	0.016 ug/Kg	g #	10/15/20 22:39	1
Surrogate	%Recovery Qualifier	Limits		ı	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	85	55 - 130		10/	15/20 10:02	10/15/20 22:39	1
General Chemistry							
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D	Analyzed	Dil Fac
Percent Moisture	8.7	0.1	0.05	0.1 %		10/22/20 22:11	1

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10/22/20 22:11

10/28/2020

0.1

0.05

0.1 %

91.3

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-11A-101220

Date Collected: 10/12/20 09:29

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-12

Matrix: Solid

Percent Solids: 97.4

Method: 8011 - EDE	B, DBCP, and	1,2,3-TCP (GC)
		- 4

LOQ LOD Analyte Result Qualifier DL Unit D Analyzed Dil Fac Ethylene Dibromide (1C) 0.039 U 0.10 0.039 0.015 ug/Kg 10/15/20 23:01

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 55 - 130 10/15/20 10:02 10/15/20 23:01 92

General Chemistry

Analyte Result Qualifier LOQ LOD DL Unit D Analyzed Dil Fac **Percent Moisture** 2.6 0.1 0.05 0.1 % 10/22/20 22:11 **Percent Solids** 0.1 0.05 0.1 % 10/22/20 22:11 97.4

Client Sample ID: GWTS-12A-101220

Date Collected: 10/12/20 09:32

Lab Sample ID: 410-17007-13

Matrix: Solid Percent Solids: 94.2 Date Received: 10/13/20 09:15

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

Result Qualifier Dil Fac Analyte LOQ LOD DL Unit D Analyzed Ethylene Dibromide (1C) 0.040 U 0.11 0.040 0.016 ug/Kg 10/15/20 23:22

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 10/15/20 10:02 10/15/20 23:22 89 55 - 130

General Chemistry

Analyte	Result Q	Qualifier	LOQ	LOD	DL Unit	D	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.05	0.1 %		10/22/20 22:11	1
Percent Solids	94.2		0.1	0.05	0.1 %		10/22/20 22:11	1

Client Sample ID: GWTS-13A-101220

Date Collected: 10/12/20 09:35

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-14

Matrix: Solid Percent Solids: 94.3

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

Result Qualifier LOQ LOD Analyte DL Unit D Analyzed Dil Fac 10/15/20 23:44 Ethylene Dibromide (1C) 0.040 U 0.11 0.040 0.016 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 86 55 - 130 10/15/20 10:02 10/15/20 23:44

General Chemistry

Analyte	Result Qualifier	LOQ	LOD	DL Unit	D Analyzed	Dil Fac
Percent Moisture	5.7	0.1	0.05	0.1 %	10/22/20 22:11	1
Percent Solids	94.3	0.1	0.05	0.1 %	10/22/20 22:11	1

Client Sample ID: GWTS-14A-101220

Date Collected: 10/12/20 09:38

Lab Sample ID: 410-17007-15 **Matrix: Solid**

Date Received: 10/13/20 09:15 Percent Solids: 97.2

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

Analyte Result Qualifier LOQ LOD DL Unit D Analyzed Dil Fac 0.039 U 10/16/20 00:05 Ethylene Dibromide (1C) 0.10 0.039 0.015 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dibromopropane (1C) 85 55 - 130 10/15/20 10:02 10/16/20 00:05

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-14A-101220

0 Lab Sample ID: 410-17007-15

Matrix: Solid Percent Solids: 97.2

Date Collected: 10/12/20 09:38 Date Received: 10/13/20 09:15

General Chemistry						
Analyte	Result Qualifier	LOQ	LOD	DL Unit	D Analyzed	Dil Fac
Percent Moisture	2.8	0.1	0.05	0.1 %	10/22/20 22:1	1 1
Percent Solids	97.2	0.1	0.05	0.1 %	10/22/20 22:1	1 1

Client Sample ID: GWTS-1A-101220-FD Lab Sample ID: 410-17007-17

 Date Collected: 10/12/20 09:00
 Matrix: Solid

 Date Received: 10/13/20 09:15
 Percent Solids: 90.7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.042	U	0.11	0.042	0.016	ug/Kg	₩	10/16/20 00:27	1
Surrogate	%Recovery Qua	alifier	Limits			Prepa	red	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	87		55 - 130			10/15/20	14:02	10/16/20 00:27	1
General Chemistry									
Analyte	Decult	Qualifier	LOQ	LOD	DL	Unit	_ n	Analyzed	Dil Fac

 Percent Moisture
 9.3
 0.1
 0.05
 0.1
 %
 10/26/20 09:03
 1

 Percent Solids
 90.7
 0.1
 0.05
 0.1
 %
 10/26/20 09:03
 1

Client Sample ID: GWTS-2A-101220-FD

Date Collected: 10/12/20 09:03

Lab Sample ID: 410-17007-18

Matrix: Solid

Date Received: 10/13/20 09:15
Percent Solids: 88.9

Analyte	Resul	t Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.043	3 U	0.11	0.043	0.017	ug/Kg	₩	10/16/20 00:48	1
Surrogate	%Recovery (Qualifier	Limits			Prepa	red	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	91		55 - 130			10/15/20	14:02	10/16/20 00:48	1

Analyte	Result Qualifier	LOQ	LOD	DL Unit	D	Analyzed	Dil Fac
Percent Moisture	11.1	0.1	0.05	0.1 %		10/26/20 09:03	1
Percent Solids	88.9	0.1	0.05	0.1 %		10/26/20 09:03	1

Surrogate Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		12DBP1	
Lab Sample ID	Client Sample ID	(55-130)	
410-17007-1	GWTS-1A-101220	95	
410-17007-2	GWTS-2A-101220	92	
410-17007-3	GWTS-3A-101220	95	
410-17007-4	GWTS-4A-101220	99	
410-17007-5	GWTS-5A-101220	91	
410-17007-6	GWTS-6A-101220	87	
410-17007-7	GWTS-7A-101220	91	
410-17007-9	GWTS-8A-101220	88 M	
410-17007-10	GWTS-9A-101220	75 M	
410-17007-11	GWTS-10A-101220	85	
410-17007-12	GWTS-11A-101220	92	
410-17007-13	GWTS-12A-101220	89	
410-17007-14	GWTS-13A-101220	86	
410-17007-15	GWTS-14A-101220	85	
410-17007-17	GWTS-1A-101220-FD	87	
410-17007-18	GWTS-2A-101220-FD	91	
LCS 280-512725/2-A	Lab Control Sample	90	
LCSD 280-512725/3-A	Lab Control Sample Dup	96	
MB 280-512725/1-A	Method Blank	86	
Surrogate Legend			

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
	12DBP1	
Client Sample ID	(70-130)	
GWTS-TB01-101220	103	
Lab Control Sample	97	
Lab Control Sample Dup	99	
Method Blank	96	
_	GWTS-TB01-101220 Lab Control Sample Lab Control Sample Dup	Client Sample ID (70-130) GWTS-TB01-101220 103 Lab Control Sample 97 Lab Control Sample Dup 99

Eurofins Lancaster Laboratories Env, LLC

1,2-Dibromopropane (1C)

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

Lab Sample ID: MB 280-512725/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 512765	Prep Batch: 512725
MB MB	

	IVID	IAID							
Analyte	Result	Qualifier	LC	Q	LOD	DL	Unit D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.038	U	0.	.10	0.038	0.015	ug/Kg	10/15/20 17:31	1
	MB M	'B							
Surrogate	%Recovery Q	ualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	86		55 - 130				10/15/20 10:02	10/15/20 17:31	1
_									

Lab Sample ID: LCS 280-5 Matrix: Solid Analysis Batch: 512765	12725/2-A					Clier	nt Sai	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 512725
			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylene Dibromide (1C)			0.875	0.742		ug/Kg		85	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dibromopropane (1C)	90		55 - 130						

Lab Sample ID: LCSD 280 Matrix: Solid Analysis Batch: 512765			(Client Sa	mple	ID: Lat	Control Prep Ty Prep Ba	pe: Tot	al/NA		
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide (1C)			0.875	0.745		ug/Kg		85	70 - 130	0	30
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

55 - 130

Lab Sample ID: MB 280-51289	4/1-A					Cilent	Samp	ie iu: Metnod	Blank
Matrix: Water								Prep Type: To	otal/NA
Analysis Batch: 512921								Prep Batch:	512894
-	MB	MB							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.014	U M	0.020	0.014	0.0037	ug/L		10/16/20 13:53	1
		_							

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (1C)	96		70 - 130	10/16/20 09:54	10/16/20 13:53	1

Lab Sample ID: LCS 280-5	12894/2-A				Client Sample ID: Lab Control Sa						
Matrix: Water									Prep Ty	pe: Total	/NA
Analysis Batch: 512921									Prep Ba	atch: 512	894
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide (1C)			0.250	0.217	M	ug/L		87	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dibromopropane (1C)	97		70 - 130								

QC Sample Results

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

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

Lab Sample ID: LCSD 280-512894/3-A Matrix: Water		(Client S	ample	ID: Lat	Control S		•	
Analysis Batch: 512921		Prep Batch: 512							
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide (1C)	0.250	0.231	M	ug/L		92	70 - 130	6	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dibromopropane (1C)	99		70 - 130

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Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

GC Semi VOA

Prep Batch: 512725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	8011	
410-17007-2	GWTS-2A-101220	Total/NA	Solid	8011	
410-17007-3	GWTS-3A-101220	Total/NA	Solid	8011	
410-17007-4	GWTS-4A-101220	Total/NA	Solid	8011	
410-17007-5	GWTS-5A-101220	Total/NA	Solid	8011	
410-17007-6	GWTS-6A-101220	Total/NA	Solid	8011	
410-17007-7	GWTS-7A-101220	Total/NA	Solid	8011	
410-17007-9	GWTS-8A-101220	Total/NA	Solid	8011	
410-17007-10	GWTS-9A-101220	Total/NA	Solid	8011	
410-17007-11	GWTS-10A-101220	Total/NA	Solid	8011	
410-17007-12	GWTS-11A-101220	Total/NA	Solid	8011	
410-17007-13	GWTS-12A-101220	Total/NA	Solid	8011	
410-17007-14	GWTS-13A-101220	Total/NA	Solid	8011	
410-17007-15	GWTS-14A-101220	Total/NA	Solid	8011	
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	8011	
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	8011	
MB 280-512725/1-A	Method Blank	Total/NA	Solid	8011	
LCS 280-512725/2-A	Lab Control Sample	Total/NA	Solid	8011	
LCSD 280-512725/3-A	Lab Control Sample Dup	Total/NA	Solid	8011	

Analysis Batch: 512765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	8011	512725
410-17007-2	GWTS-2A-101220	Total/NA	Solid	8011	512725
410-17007-3	GWTS-3A-101220	Total/NA	Solid	8011	512725
410-17007-4	GWTS-4A-101220	Total/NA	Solid	8011	512725
410-17007-5	GWTS-5A-101220	Total/NA	Solid	8011	512725
410-17007-6	GWTS-6A-101220	Total/NA	Solid	8011	512725
410-17007-7	GWTS-7A-101220	Total/NA	Solid	8011	512725
410-17007-9	GWTS-8A-101220	Total/NA	Solid	8011	512725
410-17007-10	GWTS-9A-101220	Total/NA	Solid	8011	512725
410-17007-11	GWTS-10A-101220	Total/NA	Solid	8011	512725
410-17007-12	GWTS-11A-101220	Total/NA	Solid	8011	512725
410-17007-13	GWTS-12A-101220	Total/NA	Solid	8011	512725
410-17007-14	GWTS-13A-101220	Total/NA	Solid	8011	512725
410-17007-15	GWTS-14A-101220	Total/NA	Solid	8011	512725
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	8011	512725
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	8011	512725
MB 280-512725/1-A	Method Blank	Total/NA	Solid	8011	512725
LCS 280-512725/2-A	Lab Control Sample	Total/NA	Solid	8011	512725
LCSD 280-512725/3-A	Lab Control Sample Dup	Total/NA	Solid	8011	512725

Prep Batch: 512894

Lab Sample ID 410-17007-8	Client Sample ID GWTS-TB01-101220	Prep Type Total/NA	Matrix Water	Method 8011	Prep Batch
MB 280-512894/1-A	Method Blank	Total/NA	Water	8011	
LCS 280-512894/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-512894/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

QC Association Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

GC Semi VOA

Analysis Batch: 512921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-8	GWTS-TB01-101220	Total/NA	Water	8011	512894
MB 280-512894/1-A	Method Blank	Total/NA	Water	8011	512894
LCS 280-512894/2-A	Lab Control Sample	Total/NA	Water	8011	512894
LCSD 280-512894/3-A	Lab Control Sample Dup	Total/NA	Water	8011	512894

General Chemistry

Analysis Batch: 513665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-1	GWTS-1A-101220	Total/NA	Solid	Moisture	
410-17007-2	GWTS-2A-101220	Total/NA	Solid	Moisture	
410-17007-3	GWTS-3A-101220	Total/NA	Solid	Moisture	
410-17007-4	GWTS-4A-101220	Total/NA	Solid	Moisture	
410-17007-5	GWTS-5A-101220	Total/NA	Solid	Moisture	
410-17007-6	GWTS-6A-101220	Total/NA	Solid	Moisture	
410-17007-7	GWTS-7A-101220	Total/NA	Solid	Moisture	

Analysis Batch: 513774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-9	GWTS-8A-101220	Total/NA	Solid	Moisture	
410-17007-10	GWTS-9A-101220	Total/NA	Solid	Moisture	
410-17007-11	GWTS-10A-101220	Total/NA	Solid	Moisture	
410-17007-12	GWTS-11A-101220	Total/NA	Solid	Moisture	
410-17007-13	GWTS-12A-101220	Total/NA	Solid	Moisture	
410-17007-14	GWTS-13A-101220	Total/NA	Solid	Moisture	
410-17007-15	GWTS-14A-101220	Total/NA	Solid	Moisture	

Analysis Batch: 514083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17007-17	GWTS-1A-101220-FD	Total/NA	Solid	Moisture	
410-17007-18	GWTS-2A-101220-FD	Total/NA	Solid	Moisture	

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-1A-101220

Date Collected: 10/12/20 09:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513665	10/22/20 14:03	SPG	TAL DEN

Client Sample ID: GWTS-1A-101220 Lab Sample ID: 410-17007-1

Date Collected: 10/12/20 09:00 Matrix: Solid Percent Solids: 90.2

Date Received: 10/13/20 09:15

Duan Tama	Batch	Batch	Dom	Dilution	Batch	Prepared	A a b a 4	Lab
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 18:36	JSM	TAL DEN

Client Sample ID: GWTS-2A-101220

Lab Sample ID: 410-17007-2 Date Collected: 10/12/20 09:03 **Matrix: Solid**

Date Received: 10/13/20 09:15

Dilution Batch **Batch** Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run Lab Total/NA Moisture 513665 10/22/20 14:03 SPG TAL DEN Analysis

Client Sample ID: GWTS-2A-101220 Lab Sample ID: 410-17007-2 Date Collected: 10/12/20 09:03 **Matrix: Solid**

Date Received: 10/13/20 09:15 Percent Solids: 89.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 18:57	JSM	TAL DEN

Client Sample ID: GWTS-3A-101220 Lab Sample ID: 410-17007-3

Date Collected: 10/12/20 09:06 **Matrix: Solid**

Date Received: 10/13/20 09:15

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture			513665	10/22/20 14:03	SPG	TAL DEN	-

Client Sample ID: GWTS-3A-101220 Lab Sample ID: 410-17007-3

Date Collected: 10/12/20 09:06 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 95.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 19:19	JSM	TAL DEN

Client Sample ID: GWTS-4A-101220 Lab Sample ID: 410-17007-4

Date Collected: 10/12/20 09:09 **Matrix: Solid**

Date Received: 10/13/20 09:15

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513665	10/22/20 14:03	SPG	TAL DEN

Eurofins Lancaster Laboratories Env, LLC

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-4A-101220

Date Collected: 10/12/20 09:09 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-4

Matrix: Solid

Percent Solids: 90.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 19:40	JSM	TAL DEN

Client Sample ID: GWTS-5A-101220 Lab

Date Collected: 10/12/20 09:11 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513665	10/22/20 14:03	SPG	TAL DEN

Client Sample ID: GWTS-5A-101220

Date Collected: 10/12/20 09:11

Lab Sample ID: 410-17007-5

Matrix: Solid Percent Solids: 88.8

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 8011 512725 10/15/20 10:02 JSM TAL DEN Total/NA Analysis 8011 1 512765 10/15/20 20:02 JSM TAL DEN

Client Sample ID: GWTS-6A-101220

Date Collected: 10/12/20 09:14

Date Received: 10/13/20 09:15

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-6

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513665	10/22/20 14:03	SPG	TAL DEN

Client Sample ID: GWTS-6A-101220

Date Collected: 10/12/20 09:14

Lab Sample ID: 410-17007-6

Matrix: Solid

Date Received: 10/13/20 09:15 Percent Solids: 87.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 20:23	JSM	TAL DEN

Client Sample ID: GWTS-7A-101220

Date Collected: 10/12/20 09:17

Date Received: 10/13/20 09:15

Lab Sample ID: 410-17007-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513665	10/22/20 14:03	SPG	TAL DEN

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Job ID: 410-17007-2

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-7A-101220 Lab Sample ID: 410-17007-7

Date Collected: 10/12/20 09:17 Matrix: Solid Date Received: 10/13/20 09:15 Percent Solids: 95.5

Dilution Batch Batch Ratch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 8011 10/15/20 10:02 TAL DEN Prep 512725 Total/NA 10/15/20 20:45 Analysis 8011 512765 JSM TAL DEN 1

Client Sample ID: GWTS-TB01-101220 Lab Sample ID: 410-17007-8

Date Collected: 10/12/20 13:00 **Matrix: Water** Date Received: 10/13/20 09:15

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Number or Analyzed Type Run **Factor** Analyst Lab TAL DEN Total/NA Prep 8011 512894 10/16/20 09:54 JSM Total/NA 8011 TAL DEN Analysis 512921 10/16/20 15:42 JSM 1

Client Sample ID: GWTS-8A-101220 Lab Sample ID: 410-17007-9

Date Collected: 10/12/20 09:20 **Matrix: Solid**

Date Received: 10/13/20 09:15

Batch Batch Dilution Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab ĪEU TAL DEN Total/NA Analysis Moisture 513774 10/22/20 22:11

Client Sample ID: GWTS-8A-101220 Lab Sample ID: 410-17007-9

Date Collected: 10/12/20 09:20 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 95.6

Dilution Batch Prepared Batch Batch Prep Type Type Method Run **Factor** Number or Analyzed Analyst Lab TAL DEN Total/NA Prep 8011 512725 10/15/20 10:02 JSM Total/NA Analysis 8011 10/15/20 21:56 JSM TAL DEN 1 512765

Client Sample ID: GWTS-9A-101220 Lab Sample ID: 410-17007-10

Date Collected: 10/12/20 09:23 Matrix: Solid

Date Received: 10/13/20 09:15

Dilution Batch Batch Batch **Prepared Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis Moisture 513774 10/22/20 22:11 IEU TAL DEN

Client Sample ID: GWTS-9A-101220 Lab Sample ID: 410-17007-10

Date Collected: 10/12/20 09:23 **Matrix: Solid** Date Received: 10/13/20 09:15 Percent Solids: 95.8

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
ı	Total/NA	Analysis	8011		1	512765	10/15/20 22:18	JSM	TAL DEN

2

Job ID: 410-17007-2

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-10A-101220

Date Collected: 10/12/20 09:26 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-11

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			513774	10/22/20 22:11	IEU	TAL DEN

Client Sample ID: GWTS-10A-101220

Date Collected: 10/12/20 09:26 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-11

Matrix: Solid Percent Solids: 91.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 22:39	JSM	TAL DEN

Client Sample ID: GWTS-11A-101220

Date Collected: 10/12/20 09:29 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-12

Matrix: Solid

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
L	Total/NA	Analysis	Moisture		1	513774	10/22/20 22:11	IEU	TAL DEN

Client Sample ID: GWTS-11A-101220

Date Collected: 10/12/20 09:29 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-12

Matrix: Solid

Percent Solids: 97.4

Batch Batch Dilution Batch Prepared Method Number or Analyzed Analyst **Prep Type** Type Run **Factor** Lab Total/NA 8011 512725 10/15/20 10:02 JSM TAL DEN Prep Total/NA Analysis 8011 512765 10/15/20 23:01 JSM TAL DEN 1

Client Sample ID: GWTS-12A-101220

Date Collected: 10/12/20 09:32 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-13

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture	 -		513774	10/22/20 22:11	IEU	TAL DEN

Client Sample ID: GWTS-12A-101220

Date Collected: 10/12/20 09:32 Date Received: 10/13/20 09:15

Moisture 1 513774 10/22/20 22:11 IEU TAL DEN

Matrix: Solid Percent Solids: 94.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 23:22	JSM	TAL DEN

Client Sample ID: GWTS-13A-101220

Date Collected: 10/12/20 09:35 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-14

Matrix: Solid

Lab Sample ID: 410-17007-13

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		_ <u> </u>	513774	10/22/20 22:11	IEU	TAL DEN

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10/28/2020

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Client Sample ID: GWTS-13A-101220

Date Collected: 10/12/20 09:35 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-14

Matrix: Solid

Percent Solids: 94.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 10:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/15/20 23:44	JSM	TAL DEN

Client Sample ID: GWTS-14A-101220

Date Collected: 10/12/20 09:38 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-15

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	513774	10/22/20 22:11	IEU	TAL DEN

Client Sample ID: GWTS-14A-101220

Date Collected: 10/12/20 09:38 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-15

Matrix: Solid Percent Solids: 97.2

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Factor Number or Analyzed Analyst Lab Run Total/NA Prep 8011 512725 10/15/20 10:02 JSM TAL DEN Total/NA Analysis 8011 1 512765 10/16/20 00:05 JSM TAL DEN

Client Sample ID: GWTS-1A-101220-FD

Date Collected: 10/12/20 09:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-17

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	514083	10/26/20 09:03	IEU	TAL DEN

Client Sample ID: GWTS-1A-101220-FD

Date Collected: 10/12/20 09:00 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-17

Matrix: Solid

Percent Solids: 90.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 14:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/16/20 00:27	JSM	TAL DEN

Client Sample ID: GWTS-2A-101220-FD

Date Collected: 10/12/20 09:03 Date Received: 10/13/20 09:15 Lab Sample ID: 410-17007-18

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	514083	10/26/20 09:03	IEU	TAL DEN

Lab Chronicle

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Client Sample ID: GWTS-2A-101220-FD Lab Sample ID: 410-17007-18

Date Collected: 10/12/20 09:03 **Matrix: Solid** Date Received: 10/13/20 09:15

Percent Solids: 88.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			512725	10/15/20 14:02	JSM	TAL DEN
Total/NA	Analysis	8011		1	512765	10/16/20 00:48	JSM	TAL DEN

Laboratory References:

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

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Laboratory: Eurofins TestAmerica, Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date	
A2LA	D	ept. of Defense ELAP	2907.01	10-31-21	
The following analyte	s are included in this rep	ort, but the laboratory is not	certified by the governing authority.	This list may include ana	
The following analyte the agency does not	•	ort, but the laboratory is not	certified by the governing authority.	This list may include ana	
• ,	•	ort, but the laboratory is not o	certified by the governing authority. Analyte	This list may include ana	

Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

Method	Method Description	Protocol	Laboratory
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN
8011	Microextraction	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: EA Engineering, Science, and Technology Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17007-2

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
)-17007-1	GWTS-1A-101220	Solid	10/12/20 09:00	10/13/20 09:15	
)-17007-2	GWTS-2A-101220	Solid	10/12/20 09:03	10/13/20 09:15	
)-17007-3	GWTS-3A-101220	Solid	10/12/20 09:06	10/13/20 09:15	
-17007-4	GWTS-4A-101220	Solid	10/12/20 09:09	10/13/20 09:15	
-17007-5	GWTS-5A-101220	Solid	10/12/20 09:11	10/13/20 09:15	
0-17007-6	GWTS-6A-101220	Solid	10/12/20 09:14	10/13/20 09:15	
-17007-7	GWTS-7A-101220	Solid	10/12/20 09:17	10/13/20 09:15	
)-17007-8	GWTS-TB01-101220	Water	10/12/20 13:00	10/13/20 09:15	
0-17007-9	GWTS-8A-101220	Solid	10/12/20 09:20	10/13/20 09:15	
-17007-10	GWTS-9A-101220	Solid	10/12/20 09:23	10/13/20 09:15	
-17007-11	GWTS-10A-101220	Solid	10/12/20 09:26	10/13/20 09:15	
-17007-12	GWTS-11A-101220	Solid	10/12/20 09:29	10/13/20 09:15	
-17007-13	GWTS-12A-101220	Solid	10/12/20 09:32	10/13/20 09:15	
)-17007-14	GWTS-13A-101220	Solid	10/12/20 09:35	10/13/20 09:15	
)-17007-15	GWTS-14A-101220	Solid	10/12/20 09:38	10/13/20 09:15	
-17007-17	GWTS-1A-101220-FD	Solid	10/12/20 09:00	10/13/20 09:15	
-17007-18	GWTS-2A-101220-FD	Solid	10/12/20 09:03	10/13/20 09:15	

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CWITS-A-101220		400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		ਹ	CHAIN-OF-CUSTODY RECORD	9	Ī.	SUS	STC	DY	Y	$\ddot{\circ}$	7				0-000	COC-GWTS1-101220	11220
SAMPLE DOWNER Market Downer Market M	PROJECT NAME: Kirtland AFB Bulk Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NA Eurofins TestArr	ME AND CONTACT:			FA	X AND MA	IL REPOR	RTS/EDD 1	FO: Tara	amond.	tlamor	deaest.cor	E		YEAR		
SAMPLE DENITHER			4955 Yarrow Str Arvada, CO 800	eet 002			A.	X AND MA	AL REPOR	RTS/EDD 1	ro Pam	Moss	bmoss	@eaest.cor			QUARTER	94	
SAMPLE DENTIFIER WTS-1A-101220 U/12/2020 U/1/2020 U/1/2/2020 U/1/2/202	PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER 21295				5	B CONTA	CT. Kay H	lower	KayH	пешен	rofinsUS	шоэ		1 (717) 556	-7258		
NATS-1A-101220							A	VALYSI	SREGL	JIRED (Specify	numbe	r of bo	ttles)					
ATS-1A-101220 10/12/2020 0~0・3 2 1 1 1 1		E IDENTIFIER		TIME COLLECTED	VOCs	BTEX	BTEXN	(8011)	(6020A/6010C)	Chloride, bromide, sulfate (6010C)+8260C	Nitrate-Nitrite	Ammonia					COMMENTS		
NTS-2A-101220 10/12/2020 0つのよ 1 1 1		101220	10/12/2020	0			1	-			1		1	1					
ATS-3A-101220 10/12/2020 09 09 09 09 09 09 09 09 09 09 09 09 09		101220	10/12/2020	0	7			-					1	1					
ATS-5A-101220 10/12/2020 09 01 2 1 1 1 1 1 1		101220	10/12/2020	0	-	1	- }	-		1	1	1	1	1					
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County C		225 Schiling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fav. No. (410) 771-4056		O	CHAIN-OF-CUSTODY RECORD	ż	J.	Ç	IST	O	>	RE	$\frac{1}{2}$	N N			000	COC-GWTS2-101220	1220
SAMPLE DEBITTION Account to the Count of	ROJECT NAME: Kirtland FB Bulk Fuels Facility	PROJECT NUMBER:	LABORATORY Eurofins Testan	NAME AND CON	TACT:			FAX AND	MAIL RE	PORTS/	EDD TO	Tara La Amanda	mond:	tamon	@eaest.c	F	YEAF		
Judic O Number 1970 1960 1970			4955 Yarrow St Arvada, CO 80	treet 002				FAX AND	MAIL RE	EPORTS!	EDD TO	Pam N	.580	pmoss	@eaest.		QUARTE		
SAMPE DENTIFER SAMP	ROJECT SITE AND HASE: ST106/SS111		LAB PO NUMBER 21295	6				LAB CON	TACT: K	(ay Howe		KayH	эмег@вг	rofinsU	S.com		17) 556-7258		
SAMPLE DENTIFIER SAMPLE DENTIFIER SAMPLE DENTIFIER SAMPLE DENTIFIER						ANA	YSIS	REGUI	RED (Specify	numbe	er of b	ottles)						
VTS-TA-101220 10/12/2020 0 3 1 〒 2 1 1 1 1 1 1		LE IDENTIFIER	DATE COLLECTED	TIME COLLECTED		(8260C)	(8260C)	EDB/EDB Soil (8260C)	Total As, Pb, Ca, K, Na, Mg	Dissolved Fe, Mn+BTEX		Nitrate-Nitrite		(SM4500S2CF)			COMMEN	S	
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10/28/2020

Page 30 of 38

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10/28/2020

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EUROFINS TESTAMERICA 4955 YARROW ST

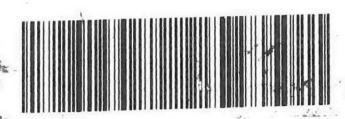




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TUE - 13 OCT 10:30%
PRIORITY OVERNIGHT
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FedEx

EA ENGINEERING 320 GOLD AVE SW ORIGIN ID: ONMA ALBUQUERQUE, NM 87102 UNITED STATES US ATTN: DARLENE BANDY **EUROFINS TESTAMERICA**

ARVADA CO 80002

4955 YARROW ST

ACTWGT: 51.75 LB CAD: 6995204/SSFE2121 DIMS: 24×14×14 IN BILL THIRD PARTY

(505) 224-9013

10/28/2020

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410-17007 Waybill

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TUE - 13 OCT 10:30
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EUROFINS TESTAMERICA
4955 YARROW ST

ARVADA CO 80002
(309) 736-0100 REF:

BILL THIRD PARTY

ALBUQUERQUE, NM 87102 UNITED STATES US

56813/A27E/876

Client: EA Engineering, Science, and Technology Job Number: 410-17007-2

Login Number: 17007 List Number: 2

List Source: Eurofins TestAmerica, Denver

Creator: O'Hara, Jake F

List Creation: 10/13/20 08:22 PM

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

Eurofins Lancaster Laboratories Env

Client: EA Engineering, Science, and Technology Job Number: 410-17007-2

Login Number: 17007 List Source: Eurofins TestAmerica, Denver List Number: 3 List Creation: 10/13/20 08:23 PM

Creator: O'Hara, Jake F

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

Eurofins Lancaster Laboratories Env

Client: EA Engineering, Science, and Technology

Job Number: 410-17007-2

Login Number: 17007 List Source: Eurofins TestAmerica, Denver
List Number: 4 List Creation: 10/14/20 08:01 PM

Creator: Pottruff, Reed W

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

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Client: EA Engineering, Science, and Technology

Job Number: 410-17007-2

List S
List Number: 5

Creator: Pottruff, Reed W

List Source: Eurofins TestAmerica, Denver List Creation: 10/14/20 08:01 PM

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

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Client: EA Engineering, Science, and Technology

Job Number: 410-17007-2

Login Number: 17007 List Source: Eurofins TestAmerica, Denver
List Number: 6 List Creation: 10/16/20 12:51 PM

Creator: O'Hara, Jake F

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td>233110</td>	True	233110
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	

True

N/A

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Samples do not require splitting or compositing.

Residual Chlorine Checked.

ATTACHMENT 3 TABLE

Table 1 Groundwater Treatment System 10/12/2020 Soil Sample Results

Sample Name Sampling Sample Name		Sample Type	Ethylene Dibromide (μg/kg)		Benzene (µg/kg)			Ethylbenzene (µg/kg)		m- & p-Xylenes (µg/kg)		Xylenes, total (μg/kg)			lron (mg/kg)			Manganese (mg/kg)									
-	Date		Result	Qual	LOD	Result	Qual	LOD	Result	Qual	LOD	Result	Qual	LOD	Result	Qual	LOD	Result	Qual	LOD	Result	Qual	LOD				
GWTS-1A-101220	10/12/20	REG	ND	U	0.042	ND	U	0.4	ND	U	0.8	ND	U	3.2	ND	U	1	9600	J	21	140	J	0.42				
GWTS-1A-101220-FD	10/12/20	FD	ND	U	0.042	ND	U	0.44	ND	U	0.88	ND	U	3.5	ND	U	1.1	9500	J	21	110	J	0.43				
GWTS-2A-101220	10/12/20	REG	ND	U	0.043	ND	U	0.43	ND	U	0.86	ND	U	3.4	ND	U	1.1	11000		21	140		0.42				
GWTS-2A-101220-FD	10/12/20	FD	ND	U	0.043	ND	U	0.4	ND	U	0.81	ND	U	3.2	ND	U	1	11000		19	130		0.37				
GWTS-3A-101220	10/12/20	REG	ND	U	0.040	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_				
GWTS-4A-101220	10/12/20	REG	ND	UM	0.042	ND	U	0.44	ND	U	0.87	ND	U	3.5	ND	U	1.1	7500		21	110		0.41				
GWTS-5A-101220	10/12/20	REG	ND	U	0.043	ND	U	0.4	ND	U	0.8	ND	U	3.2	ND	U	1	7800		18	99		0.35				
GWTS-6A-101220	10/12/20	REG	ND	U	0.043	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_				
GWTS-7A-101220	10/12/20	REG	ND	U	0.040	ND	U	0.41	ND	U	0.83	ND	U	3.3	ND	U	1	7200		18	91		0.36				
GWTS-8A-101220	10/12/20	REG	ND	U	0.040	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_				
GWTS-9A-101220	10/12/20	REG	ND	U	0.040	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_				
GWTS-10A-101220	10/12/20	REG	ND	U	0.042	I	_	-	I	_	_	_	_	_	_	_	_	_	_	_	I	_	-				
GWTS-11A-101220	10/12/20	REG	ND	U	0.039	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_				
GWTS-12A-101220	10/12/20	REG	ND	U	0.040	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_				
GWTS-13A-101220	10/12/20	REG	ND	U	0.040	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_				
GWTS-14A-101220	10/12/20	REG	ND	U	0.039	_	_	_	_	_		_	_		_	_		_	_	_	_	_	_				
	N	MED Residential ^a		672			17.8	'.8 75.1			5,230			871			54,800			10,500							
	1	EPA Residential ^b		360			12			58		4,900		4,900		4,900		4,900		580		55000			1800		

μg/kg = microgram per kilogram

mg/kg = milligram per kilogram FD = Field Duplicate

LOD = limit of detection

ND = not detected

QUAL = qualifier

REG = normal field sample

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

M = Qualifier denotes manual integrated compound.

U = Qualifier denotes the analyte was analyzed but not detected above the detection limit. The value associated with the U-qualifier is the LOD.

- -- = Validation qualifier not assigned.
- = Compound not analyzed for.

a New Nexico Environment Department (NMED) Risk Assessment Guidance for Site Investigations and Remediation, Appendix A, Table A-1, NMED Soil Screening Levels (SSL). February 2019.

b EPA Regional Screening Levels (RSLs) for residential use scenario for hazard index = 1.0 for noncarcinogens and a 10⁻⁵ cancer risk level for carcinogens. May 2020.

ATTACHMENT 4 DOCUMENT CERTIFICATION

40 CFR 270.11 DOCUMENT CERTIFICATION

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

Tow Mille	11 November 2020
DAVID S. MILLER, Colonel, U.S. Air Force Commander, 377th Air Base Wing	Date
This document has been approved for public release.	
Ma.	10210V ZU
KIRTLAND AIR FORCE BASE 377th Air Base Wing Public Affairs	Date