



Adriane Gifford
Project Manager

Upstream Business Unit
Environmental Management Company
1500 Louisiana Street
Room 38108
Houston, Texas 77002
Tel 832-854-5620
agifford@chevron.com

April 20, 2020

Mr. Bradford Billings
Environmental Bureau
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request – West Dollarhide Drinkard Unit Battery
Case No. 1RP-4008
Lea County, New Mexico

Dear Mr. Billings:

Chevron Environmental Management Company (CEMC) submits herein to the New Mexico Oil Conservation Division (OCD) a closure request for 1RP-4008, West Dollarhide Drinkard Unit Battery, which is located in Unit D, Section 32, Township 24 South, Range 38 East in southeastern Lea County, New Mexico. This closure request was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of CEMC. Assessment activities were completed on February 27, 2020 and conducted in accordance with the *2020 Work Plan* that was submitted to the OCD on February 13, 2020.

If you have any questions regarding this submittal, please contact Scott Foord of Arcadis at (713) 953-4853 or me at (832) 854-5620.

Respectfully,

Chevron Environmental Management Company
on behalf of
Chevron U.S.A. Inc.

A handwritten signature in blue ink, appearing to read "Adriane Gifford".

Adriane Gifford
Project Manager

Encl.

New Mexico Oil Conservation Division – District I
Upstream Business Unit
1625 N. French Drive
Hobbs, New Mexico 88240

Arcadis U.S., Inc.
1004 North Big Spring Street
Suite 121
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401
www.arcadis.com

Subject:
West Dollarhide Drinkard Unit Battery – Closure Request
Case No. 1RP-4008
Lea County, New Mexico

ENVIRONMENT

Dear New Mexico Oil Conservation Division:

Date:
April 20, 2020

PROJECT SUMMARY

Contact:
Scott Foord

The West Dollarhide Drinkard Unit (WDDU) Battery (Site) is in Unit D, Section 32, Township 24 South, Range 38 East, approximately 7.5-miles northeast of Jal, in southeastern Lea County, New Mexico. A site map is presented in **Figure 1**.

Phone:
713.953.4853

On December 5, 2015, a ruptured injection line at the Site released 6.225 barrels (bbls) of produced water. According to the initial C-141 Form submitted on December 10, 2015, the affected area was a mixture of caliche, soil and sand. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well approximately 1.10 miles southeast of the Site with a depth to groundwater of 105 feet below ground surface (bgs). The initial C-141 Form was approved with conditions and assigned remediation permit number 1RP-4008. The initial C-141 Form is included as **Attachment 1**.

Email:
William.Foord@arcadis.com

Our ref:
30045812

ARCADIS U.S., Inc.
TX Engineering License # F-533
Geoscientist License # 50158

SOIL SAMPLING

On February 13, 2020, CEMC submitted a Work Plan to the New Mexico Oil Conservation Division (NMOCD). The following soil assessment activities were completed in accordance with the Work Plan.

On February 27, 2020, Arcadis personnel collected soil samples from eight locations (HA-1 through HA-8) from the spill area with a hand auger to depths ranging from just below ground surface (bgs) to 4 feet bgs. Native bed rock (hand auger refusal) was encountered within all soil boring locations. Additional background samples were collected in order to determine native soil conditions. The soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX); total petroleum hydrocarbons (TPH) gasoline range organics

New Mexico Oil Conservation
Division – District I
April 20, 2020

(GRO), diesel range organics (DRO), and motor oil range organics (MRO); and chloride by United States Environmental Protection Agency (USEPA) Methods 8021B, 8015 and 300, respectively. Soil sample locations are presented in **Figure 2**. A photograph log is included as **Attachment 2**.

The soil analytical results were compared to the New Mexico Oil Conservation Division (NMOCD) screening levels for BTEX, TPH and chloride. Depth to groundwater greater than 100 feet below ground surface (bgs) requires vertical delineation for BTEX, TPH and chloride to 50 milligrams per kilogram (mg/Kg); 2,500 mg/Kg; and 20,000 mg/Kg, respectively. Chloride concentrations in soil must also remain below the soil reclamation screening criteria of 600 mg/Kg within the first four feet of soil.

Soil Analytical Results

BTEX, TPH and chloride concentrations were below the applicable NMOCD screening criteria for all soil samples collected. A summary of the soil sample analytical data is presented in **Table 1**. The laboratory analytical report is included as **Attachment 3**.

CLOSURE REQUEST

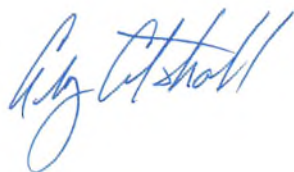
Arcadis, on behalf of CEMC, respectfully requests that no further action be performed with respect to 1RP-4008 and that the site be granted closure by the NMOCD. The Final C-141 Form is included as **Attachment 4**.

Sincerely,

Arcadis U.S., Inc.



Scott Foord
Project Manager



Greg Cutshall
Program Manager

Copies:

Adriane Gifford - CEMC

New Mexico Oil Conservation
Division – District I
April 20, 2020

Enclosures:

Tables

- 1 2020 Soil Sample Analytical Results

Figures

- 1 Site Details Map
- 2 Soil Sample Locations Map

Attachments

- 1 Initial C-141 Form
- 2 Photograph Log
- 3 Laboratory Analytical Report
- 4 Final C-141 Form

TABLES



Table 1
2020 Soil Analytical Results
Chevron Environmental Management Company
WDDU Battery
Lea County, New Mexico



Sample I.D. No.	Sample Depth (feet bgs)	Date						
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Total TPH	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
NMAC Standards		10	50			2,500	20,000	
		mg/Kg	mg/Kg			mg/Kg	mg/Kg	
HA-1	0 - 3"	02/27/20	0.000768	0.00168	0.00124	0.001380	104.06	25.40
HA-2	0 - 3"	02/27/20	0.000709	0.00155	0.001150	0.001270	24.69	15.50
	2'	02/27/20	0.000462	0.00101	0.000748	0.000829	23.91	14.10
	4'	02/27/20	0.000471	0.00103	0.000762	0.000844	17.98	18.10
HA-3	0 - 3"	02/27/20	0.000714	0.00156	0.00116	0.001280	79.56	15.70
	2'	02/27/20	0.000710	0.00156	0.00115	0.001270	34.11	5.47
HA-4	0 - 3"	02/27/20	0.000707	0.00155	0.00114	0.001270	40.92	10.40
	1.6'	02/27/20	0.000611	0.00134	0.00099	0.001100	41.41	0.55
HA-5	0 - 3"	02/27/20	0.000710	0.00156	0.00115	0.001270	101.65	7.93
	2.6'	02/27/20	0.000734	0.00161	0.00119	0.001320	34.41	6.95
HA-6	0 - 3"	02/27/20	0.000612	0.00134	0.000991	0.001100	84.25	11.60
	2'	02/27/20	0.000594	0.00130	0.001070	0.001070	37.86	4.16
HA-7	0 - 3"	02/27/20	0.000730	0.00160	0.001180	0.001310	47.88	5.93
	2'	02/27/20	0.000716	0.00157	0.001160	0.001280	34.78	3.36
HA-8	0 - 3"	02/27/20	0.000851	0.00186	0.001380	0.001530	62.09	9.97
	2.6'	02/27/20	0.000811	0.00260	0.001310	0.003110	34.15	3.37
BG-1	0 - 3"	02/27/20	0.004080	0.00756	0.001060	0.003970	64.89	2.40
	2'	02/27/20	0.003480	0.00777	0.001270	0.006370	33.89	3.05

Legend:

Analytes exceeding NMAC Standards are indicated in **bold**.

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

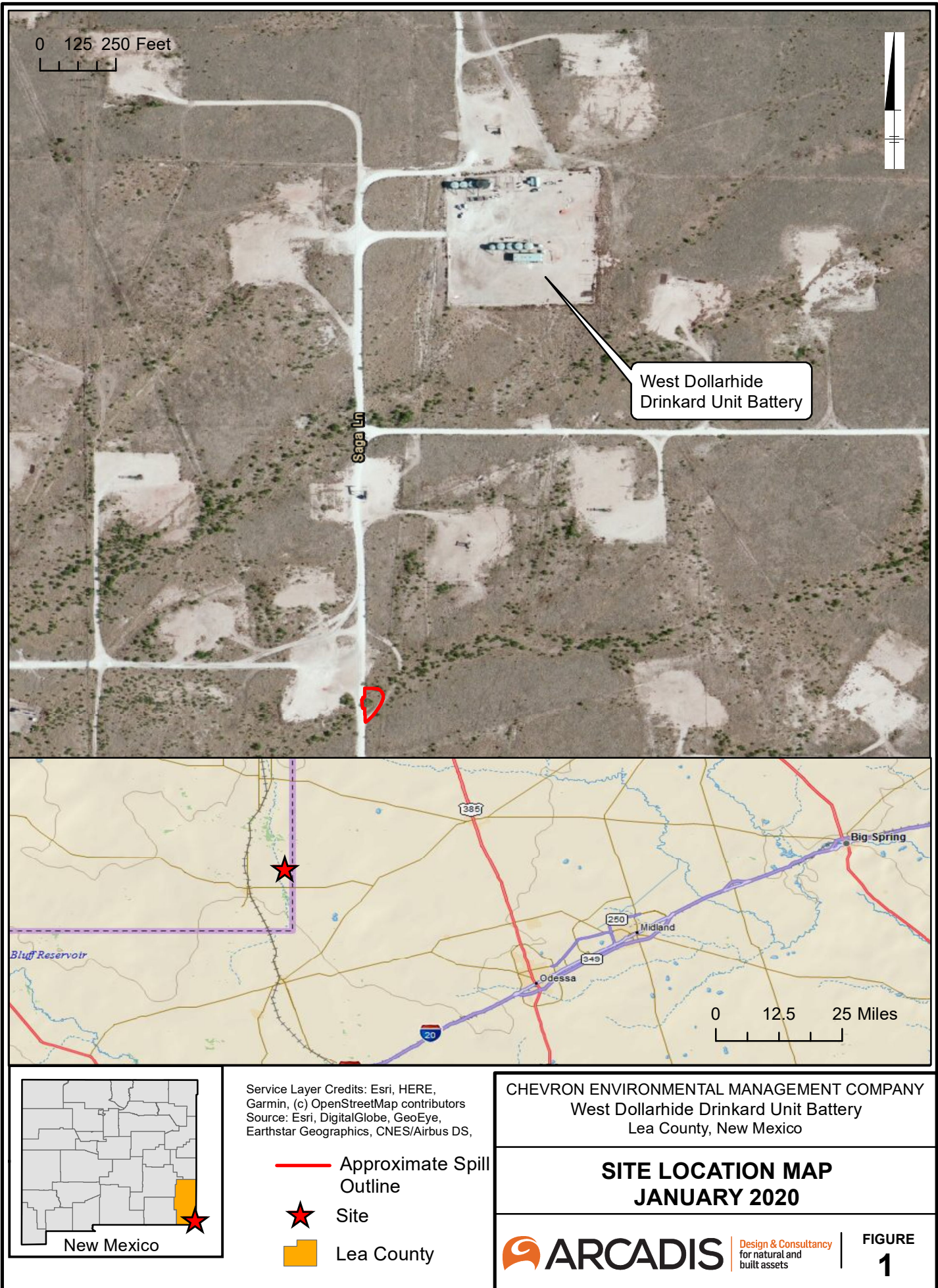
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

" " " : Indicates one foot

FIGURES



City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: NBurger ; Client (Project #)
 C:\Users\NBurger\Documents\Temp\Chevron\WDDU Battery\Chevron\GIS - WDDU Battery\WDDU Battery\WDDU Battery (D)\SOW\GIS
 G:\ENV\Chevron\Texas\TX81HES Transfer\01 Project Management\2020\2_SOW Proposal\Scope\WDDU Battery (D)\SOW\GIS





Legend

- Soil Sample Location
- Approximate Spill Outline

Notes:

1. Datum: D_WGS_1984
2. Site Location: 32.17503, -103.08856

0 25 50 100 Feet



Chevron Environmental Management Company
West Dollarhide Drinkard Unit Battery
Lea County, New Mexico

SOIL SAMPLE LOCATION MAP February 2020



ARCADIS

FIGURE

2

ATTACHMENT 1

Initial C-141 Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

By JKeyes at 8:03 am, Dec 10, 2015

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chevron USA Inc.	Contact: Nick Hampton
Address: 15 Smith Rd., Midland, TX, 79705	Telephone No.: Work: 575-704-3143 Cell: 985-502-2342
Facility Name: West Dollarhide Drinkard Unit Battery	Facility Type: Injection Line
Surface Owner: State surface	Mineral Owner: (QLS-091040 – State of New Mexico B-9613 LSE)
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	32	24-S	38E					

Latitude: 32 deg 9.788 minutes north / Longitude: -103 deg 5.218 minutes west

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 6.225 BBLS produced water	Volume Recovered: 0 BBLS produced water
Source of Release: WDDU South West Lateral Injection Line	Date and Hour of Occurrence 12/5/15 11:15 AM	Date and Hour of Discovery 12/5/15 11:15 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Leak in injection line from caused the release of 6.225 BBLS of produced water. All contaminated soil will be removed.

Describe Area Affected and Cleanup Action Taken.*

The area affected was a mixture of caliche, soil, and sand.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: Nick Hampton

Printed Name: Nick Hampton

Approved by Environmental Specialist:



Title: HE Specialist

Approval Date: 12/10/2015

Expiration Date: 02/10/2016

E-mail Address: cikb@chevron.com

Conditions of Approval:

Discrete site samples required. Delineate and remediate per NMOCD guidelines.

Attached ☐
IRP 4008

Date: 12/10/15

Phone: 985-502-2342

* Attach Additional Sheets If Necessary

Geotagged photos recommended.

nJXK1534428787
pJXK1534428902

ATTACHMENT 2

Photograph Log



PHOTOGRAPH LOG



Chevron
WDDU Battery
1RP-4008
Lea County, New Mexico



Release area facing east, Feb. 27, 2020 (32° 10' 31.03" N, 103° 5' 18.83" W)



Release area facing north, Feb. 27, 2020 (32° 10' 29.73" N, 103° 5' 18.49" W)

PHOTOGRAPH LOG



Chevron
WDDU Battery
1RP-4008
Lea County, New Mexico



Release area facing west, Feb. 27, 2020 (32° 10' 30.70" N, 103° 5' 17.60" W)

ATTACHMENT 3

Laboratory Analytical Report



Environment Testing
TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-201476-1
Client Project/Site: Chevron WDDU Battery

For:
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 121
Midland, Texas 79701

Attn: Sarah Johnson

Authorized for release by:
3/18/2020 11:20:53 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Laboratory Job ID: 600-201476-1

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Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5035	Closed System Purge & Trap/Laboratory Preservation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Eurofins TestAmerica, Houston

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-201476-1	HA-2-0"-3"	Solid	02/27/20 11:40	02/29/20 08:54	
600-201476-2	HA-2-2'	Solid	02/27/20 12:05	02/29/20 08:54	
600-201476-3	HA-2-4'	Solid	02/27/20 12:30	02/29/20 08:54	
600-201476-4	HA-1-0"-3"	Solid	02/27/20 13:00	02/29/20 08:54	
600-201476-5	HA-3-0"-3"	Solid	02/27/20 13:20	02/29/20 08:54	
600-201476-6	HA-3-2'	Solid	02/27/20 13:40	02/29/20 08:54	
600-201476-7	HA-4-0"-3"	Solid	02/27/20 13:55	02/29/20 08:54	
600-201476-8	HA-4-18"	Solid	02/27/20 14:10	02/29/20 08:54	
600-201476-9	HA-5-0"-3"	Solid	02/27/20 14:35	02/29/20 08:54	
600-201476-10	HA-5-2'-6"	Solid	02/27/20 15:00	02/29/20 08:54	
600-201476-11	HA-6-0'-3'	Solid	02/27/20 15:10	02/29/20 08:54	
600-201476-12	HA-6-2'	Solid	02/27/20 15:25	02/29/20 08:54	
600-201476-13	HA-7-0"-3"	Solid	02/27/20 15:40	02/29/20 08:54	
600-201476-14	HA-7-2'	Solid	02/27/20 16:00	02/29/20 08:54	
600-201476-15	HA-8-0"-3"	Solid	02/27/20 16:25	02/29/20 08:54	
600-201476-16	HA-8-2-6"	Solid	02/27/20 16:45	02/29/20 08:54	
600-201476-17	BG-1-0"-3"	Solid	02/27/20 17:00	02/29/20 08:54	
600-201476-18	BG-1-2'	Solid	02/27/20 17:15	02/29/20 08:54	

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-2-0"-3"

Lab Sample ID: 600-201476-1

Date Collected: 02/27/20 11:40

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 95.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.709	U	5.63	0.709	ug/Kg	☼	02/29/20 13:20	03/02/20 12:01	1
Ethylbenzene	1.15	U	5.63	1.15	ug/Kg	☼	02/29/20 13:20	03/02/20 12:01	1
Toluene	1.55	U	5.63	1.55	ug/Kg	☼	02/29/20 13:20	03/02/20 12:01	1
Xylenes, Total	1.27	U	5.63	1.27	ug/Kg	☼	02/29/20 13:20	03/02/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130	02/29/20 13:20	03/02/20 12:01	1
Dibromofluoromethane	97		68 - 140	02/29/20 13:20	03/02/20 12:01	1
Toluene-d8 (Surr)	96		50 - 130	02/29/20 13:20	03/02/20 12:01	1
4-Bromofluorobenzene	98		57 - 140	02/29/20 13:20	03/02/20 12:01	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.643	U	1.10	0.643	mg/Kg	☼	03/03/20 13:57	03/03/20 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	03/03/20 13:57	03/03/20 17:12	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.45	J	8.69	1.79	mg/Kg	☼	03/02/20 15:08	03/04/20 18:38	1
C28-C36	20.6		8.69	5.24	mg/Kg	☼	03/02/20 15:08	03/04/20 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		60 - 140	03/02/20 15:08	03/04/20 18:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.5	F1 F2	4.21	0.562	mg/Kg	☼		03/17/20 14:51	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	95.0		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-2-2'

Lab Sample ID: 600-201476-2

Date Collected: 02/27/20 12:05

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 89.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.462	U	3.67	0.462	ug/Kg	☼	02/29/20 13:20	03/02/20 12:23	1
Ethylbenzene	0.748	U	3.67	0.748	ug/Kg	☼	02/29/20 13:20	03/02/20 12:23	1
Toluene	1.01	U	3.67	1.01	ug/Kg	☼	02/29/20 13:20	03/02/20 12:23	1
Xylenes, Total	0.829	U	3.67	0.829	ug/Kg	☼	02/29/20 13:20	03/02/20 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 130	02/29/20 13:20	03/02/20 12:23	1
Dibromofluoromethane	98		68 - 140	02/29/20 13:20	03/02/20 12:23	1
Toluene-d8 (Surr)	101		50 - 130	02/29/20 13:20	03/02/20 12:23	1
4-Bromofluorobenzene	103		57 - 140	02/29/20 13:20	03/02/20 12:23	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-2-2'

Date Collected: 02/27/20 12:05

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-2

Matrix: Solid

Percent Solids: 89.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.626	U	1.07	0.626	mg/Kg	☼	03/03/20 13:57	03/03/20 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		70 - 130				03/03/20 13:57	03/03/20 17:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.18	J	9.25	1.91	mg/Kg	☼	03/02/20 15:08	03/04/20 19:11	1
C28-C36	20.1		9.25	5.57	mg/Kg	☼	03/02/20 15:08	03/04/20 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140				03/02/20 15:08	03/04/20 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		4.48	0.599	mg/Kg	☼		03/17/20 15:52	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	89.2		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-2-4'

Date Collected: 02/27/20 12:30

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-3

Matrix: Solid

Percent Solids: 89.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.471	U	3.73	0.471	ug/Kg	☼	02/29/20 13:20	03/02/20 12:45	1
Ethylbenzene	0.762	U	3.73	0.762	ug/Kg	☼	02/29/20 13:20	03/02/20 12:45	1
Toluene	1.03	U	3.73	1.03	ug/Kg	☼	02/29/20 13:20	03/02/20 12:45	1
Xylenes, Total	0.844	U	3.73	0.844	ug/Kg	☼	02/29/20 13:20	03/02/20 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130				02/29/20 13:20	03/02/20 12:45	1
Dibromofluoromethane	96		68 - 140				02/29/20 13:20	03/02/20 12:45	1
Toluene-d8 (Surr)	100		50 - 130				02/29/20 13:20	03/02/20 12:45	1
4-Bromofluorobenzene	96		57 - 140				02/29/20 13:20	03/02/20 12:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.669	U	1.14	0.669	mg/Kg	☼	03/03/20 13:57	03/03/20 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	112		70 - 130				03/03/20 13:57	03/03/20 17:59	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.91	U	9.25	1.91	mg/Kg	☼	03/02/20 15:08	03/04/20 19:44	1
C28-C36	15.4		9.25	5.57	mg/Kg	☼	03/02/20 15:08	03/04/20 19:44	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-2-4'

Date Collected: 02/27/20 12:30

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-3

Matrix: Solid

Percent Solids: 89.6

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	6	X	60 - 140				03/02/20 15:08	03/04/20 19:44	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		4.46	0.596	mg/Kg	☼		03/17/20 16:12	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	89.6		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-1-0"-3"

Date Collected: 02/27/20 13:00

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-4

Matrix: Solid

Percent Solids: 93.9

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.768	U	6.10	0.768	ug/Kg	☼	02/29/20 13:20	03/02/20 13:08	1
Ethylbenzene	1.24	U	6.10	1.24	ug/Kg	☼	02/29/20 13:20	03/02/20 13:08	1
Toluene	1.68	U	6.10	1.68	ug/Kg	☼	02/29/20 13:20	03/02/20 13:08	1
Xylenes, Total	1.38	U	6.10	1.38	ug/Kg	☼	02/29/20 13:20	03/02/20 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		61 - 130				02/29/20 13:20	03/02/20 13:08	1
Dibromofluoromethane	98		68 - 140				02/29/20 13:20	03/02/20 13:08	1
Toluene-d8 (Surr)	93		50 - 130				02/29/20 13:20	03/02/20 13:08	1
4-Bromofluorobenzene	97		57 - 140				02/29/20 13:20	03/02/20 13:08	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.666	U	1.14	0.666	mg/Kg	☼	03/03/20 13:57	03/03/20 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	121		70 - 130				03/03/20 13:57	03/03/20 18:23	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16.9		8.80	1.81	mg/Kg	☼	03/02/20 15:08	03/04/20 20:51	1
C28-C36	86.5		8.80	5.30	mg/Kg	☼	03/02/20 15:08	03/04/20 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		60 - 140				03/02/20 15:08	03/04/20 20:51	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.4		4.26	0.568	mg/Kg	☼		03/17/20 16:33	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.1		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	93.9		1.0	1.0	%			03/05/20 08:20	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-3-0"-3"

Lab Sample ID: 600-201476-5

Date Collected: 02/27/20 13:20

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 95.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.714	U	5.67	0.714	ug/Kg	☼	02/29/20 13:20	03/02/20 13:30	1
Ethylbenzene	1.16	U	5.67	1.16	ug/Kg	☼	02/29/20 13:20	03/02/20 13:30	1
Toluene	1.56	U	5.67	1.56	ug/Kg	☼	02/29/20 13:20	03/02/20 13:30	1
Xylenes, Total	1.28	U	5.67	1.28	ug/Kg	☼	02/29/20 13:20	03/02/20 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		61 - 130	02/29/20 13:20	03/02/20 13:30	1
Dibromofluoromethane	97		68 - 140	02/29/20 13:20	03/02/20 13:30	1
Toluene-d8 (Surr)	99		50 - 130	02/29/20 13:20	03/02/20 13:30	1
4-Bromofluorobenzene	99		57 - 140	02/29/20 13:20	03/02/20 13:30	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.622	U	1.06	0.622	mg/Kg	☼	03/03/20 13:57	03/03/20 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	123		70 - 130	03/03/20 13:57	03/03/20 18:47	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.54	J	8.69	1.79	mg/Kg	☼	03/02/20 15:08	03/04/20 21:25	1
C28-C36	70.4		8.69	5.23	mg/Kg	☼	03/02/20 15:08	03/04/20 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		60 - 140	03/02/20 15:08	03/04/20 21:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		4.21	0.562	mg/Kg	☼		03/17/20 16:53	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.9		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	95.1		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-3-2'

Lab Sample ID: 600-201476-6

Date Collected: 02/27/20 13:40

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.710	U	5.64	0.710	ug/Kg	☼	02/29/20 13:20	03/02/20 13:52	1
Ethylbenzene	1.15	U	5.64	1.15	ug/Kg	☼	02/29/20 13:20	03/02/20 13:52	1
Toluene	1.56	U	5.64	1.56	ug/Kg	☼	02/29/20 13:20	03/02/20 13:52	1
Xylenes, Total	1.27	U	5.64	1.27	ug/Kg	☼	02/29/20 13:20	03/02/20 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 130	02/29/20 13:20	03/02/20 13:52	1
Dibromofluoromethane	99		68 - 140	02/29/20 13:20	03/02/20 13:52	1
Toluene-d8 (Surr)	98		50 - 130	02/29/20 13:20	03/02/20 13:52	1
4-Bromofluorobenzene	100		57 - 140	02/29/20 13:20	03/02/20 13:52	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-3-2'

Date Collected: 02/27/20 13:40

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-6

Matrix: Solid

Percent Solids: 94.1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.666	U	1.14	0.666	mg/Kg	☼	03/03/20 13:57	03/03/20 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	118		70 - 130	03/03/20 13:57	03/03/20 19:10	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.15	J	8.77	1.81	mg/Kg	☼	03/02/20 15:08	03/04/20 21:59	1

C28-C36	29.3		8.77	5.28	mg/Kg	☼	03/02/20 15:08	03/04/20 21:59	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		60 - 140	03/02/20 15:08	03/04/20 21:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.47		4.25	0.567	mg/Kg	☼		03/17/20 17:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		1.0	1.0	%			03/05/20 08:20	1

Percent Solids	94.1		1.0	1.0	%			03/05/20 08:20	1
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Client Sample ID: HA-4-0"-3"

Date Collected: 02/27/20 13:55

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-7

Matrix: Solid

Percent Solids: 96.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.707	U	5.61	0.707	ug/Kg	☼	02/29/20 13:20	03/02/20 14:15	1
Ethylbenzene	1.14	U	5.61	1.14	ug/Kg	☼	02/29/20 13:20	03/02/20 14:15	1
Toluene	1.55	U	5.61	1.55	ug/Kg	☼	02/29/20 13:20	03/02/20 14:15	1
Xylenes, Total	1.27	U	5.61	1.27	ug/Kg	☼	02/29/20 13:20	03/02/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130	02/29/20 13:20	03/02/20 14:15	1
Dibromofluoromethane	93		68 - 140	02/29/20 13:20	03/02/20 14:15	1
Toluene-d8 (Surr)	94		50 - 130	02/29/20 13:20	03/02/20 14:15	1
4-Bromofluorobenzene	94		57 - 140	02/29/20 13:20	03/02/20 14:15	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.594	U	1.01	0.594	mg/Kg	☼	03/03/20 13:57	03/03/20 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	119		70 - 130	03/03/20 13:57	03/03/20 19:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.43	J	8.62	1.78	mg/Kg	☼	03/02/20 15:08	03/04/20 22:33	1

C28-C36	35.9		8.62	5.19	mg/Kg	☼	03/02/20 15:08	03/04/20 22:33	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-4-0"-3"

Lab Sample ID: 600-201476-7

Date Collected: 02/27/20 13:55

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 96.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		60 - 140	03/02/20 15:08	03/04/20 22:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		4.17	0.556	mg/Kg	☼		03/17/20 18:15	1

General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.0		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	96.0		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-4-18"

Lab Sample ID: 600-201476-8

Date Collected: 02/27/20 14:10

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 96.5

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.611	U	4.85	0.611	ug/Kg	☼	02/29/20 13:20	03/02/20 14:37	1
Ethylbenzene	0.990	U	4.85	0.990	ug/Kg	☼	02/29/20 13:20	03/02/20 14:37	1
Toluene	1.34	U	4.85	1.34	ug/Kg	☼	02/29/20 13:20	03/02/20 14:37	1
Xylenes, Total	1.10	U	4.85	1.10	ug/Kg	☼	02/29/20 13:20	03/02/20 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		61 - 130	02/29/20 13:20	03/02/20 14:37	1
Dibromofluoromethane	98		68 - 140	02/29/20 13:20	03/02/20 14:37	1
Toluene-d8 (Surr)	96		50 - 130	02/29/20 13:20	03/02/20 14:37	1
4-Bromofluorobenzene	99		57 - 140	02/29/20 13:20	03/02/20 14:37	1

Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.621	U	1.06	0.621	mg/Kg	☼	03/03/20 13:57	03/05/20 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	03/03/20 13:57	03/05/20 15:14	1

Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.49	J	8.58	1.77	mg/Kg	☼	03/02/20 15:08	03/04/20 23:07	1
C28-C36	36.3		8.58	5.17	mg/Kg	☼	03/02/20 15:08	03/04/20 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	87		60 - 140	03/02/20 15:08	03/04/20 23:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.554	U	4.15	0.554	mg/Kg	☼		03/17/20 18:35	1

General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	96.5		1.0	1.0	%			03/05/20 08:20	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-5-0"-3"

Lab Sample ID: 600-201476-9

Date Collected: 02/27/20 14:35

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 95.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.710	U	5.64	0.710	ug/Kg	☼	02/29/20 13:20	03/02/20 16:15	1
Ethylbenzene	1.15	U	5.64	1.15	ug/Kg	☼	02/29/20 13:20	03/02/20 16:15	1
Toluene	1.56	U	5.64	1.56	ug/Kg	☼	02/29/20 13:20	03/02/20 16:15	1
Xylenes, Total	1.27	U	5.64	1.27	ug/Kg	☼	02/29/20 13:20	03/02/20 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		61 - 130	02/29/20 13:20	03/02/20 16:15	1
Dibromofluoromethane	97		68 - 140	02/29/20 13:20	03/02/20 16:15	1
Toluene-d8 (Surr)	97		50 - 130	02/29/20 13:20	03/02/20 16:15	1
4-Bromofluorobenzene	91		57 - 140	02/29/20 13:20	03/02/20 16:15	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.656	U	1.12	0.656	mg/Kg	☼	03/03/20 13:57	03/05/20 10:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	119		70 - 130	03/03/20 13:57	03/05/20 10:50	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12.8		8.66	1.78	mg/Kg	☼	03/02/20 15:08	03/04/20 23:41	1
C28-C36	88.2		8.66	5.22	mg/Kg	☼	03/02/20 15:08	03/04/20 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		60 - 140	03/02/20 15:08	03/04/20 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.93		4.19	0.559	mg/Kg	☼		03/17/20 18:56	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	95.5		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-5-2'-6"

Lab Sample ID: 600-201476-10

Date Collected: 02/27/20 15:00

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 91.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.734	U	5.83	0.734	ug/Kg	☼	02/29/20 13:20	03/02/20 16:38	1
Ethylbenzene	1.19	U	5.83	1.19	ug/Kg	☼	02/29/20 13:20	03/02/20 16:38	1
Toluene	1.61	U	5.83	1.61	ug/Kg	☼	02/29/20 13:20	03/02/20 16:38	1
Xylenes, Total	1.32	U	5.83	1.32	ug/Kg	☼	02/29/20 13:20	03/02/20 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130	02/29/20 13:20	03/02/20 16:38	1
Dibromofluoromethane	99		68 - 140	02/29/20 13:20	03/02/20 16:38	1
Toluene-d8 (Surr)	93		50 - 130	02/29/20 13:20	03/02/20 16:38	1
4-Bromofluorobenzene	96		57 - 140	02/29/20 13:20	03/02/20 16:38	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-5-2'-6"

Lab Sample ID: 600-201476-10

Date Collected: 02/27/20 15:00

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 91.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.663	U	1.13	0.663	mg/Kg	☼	03/03/20 13:57	03/05/20 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	03/03/20 13:57	03/05/20 11:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.55	J	9.06	1.87	mg/Kg	☼	03/02/20 15:08	03/05/20 00:15	1

C28-C36	29.2		9.06	5.46	mg/Kg	☼	03/02/20 15:08	03/05/20 00:15	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	03/02/20 15:08	03/05/20 00:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.95		4.38	0.585	mg/Kg	☼		03/17/20 19:16	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	91.2		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-6-0'-3'

Lab Sample ID: 600-201476-11

Date Collected: 02/27/20 15:10

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 95.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.612	U	4.86	0.612	ug/Kg	☼	02/29/20 13:20	03/02/20 17:00	1
Ethylbenzene	0.991	U	4.86	0.991	ug/Kg	☼	02/29/20 13:20	03/02/20 17:00	1
Toluene	1.34	U	4.86	1.34	ug/Kg	☼	02/29/20 13:20	03/02/20 17:00	1
Xylenes, Total	1.10	U	4.86	1.10	ug/Kg	☼	02/29/20 13:20	03/02/20 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130	02/29/20 13:20	03/02/20 17:00	1
Dibromofluoromethane	101		68 - 140	02/29/20 13:20	03/02/20 17:00	1
Toluene-d8 (Surr)	96		50 - 130	02/29/20 13:20	03/02/20 17:00	1
4-Bromofluorobenzene	97		57 - 140	02/29/20 13:20	03/02/20 17:00	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.657	U	1.12	0.657	mg/Kg	☼	03/03/20 13:57	03/05/20 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130	03/03/20 13:57	03/05/20 11:37	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11.7		8.72	1.80	mg/Kg	☼	03/02/20 15:08	03/05/20 00:49	1

C28-C36	71.9		8.72	5.25	mg/Kg	☼	03/02/20 15:08	03/05/20 00:49	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-6-0'-3'

Date Collected: 02/27/20 15:10

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-11

Matrix: Solid

Percent Solids: 95.0

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		60 - 140				03/02/20 15:08	03/05/20 00:49	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.21	0.562	mg/Kg	☼		03/17/20 19:37	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.0		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	95.0		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-6-2'

Date Collected: 02/27/20 15:25

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-12

Matrix: Solid

Percent Solids: 91.0

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.594	U	4.72	0.594	ug/Kg	☼	02/29/20 13:20	03/02/20 17:23	1
Ethylbenzene	0.962	U	4.72	0.962	ug/Kg	☼	02/29/20 13:20	03/02/20 17:23	1
Toluene	1.30	U	4.72	1.30	ug/Kg	☼	02/29/20 13:20	03/02/20 17:23	1
Xylenes, Total	1.07	U	4.72	1.07	ug/Kg	☼	02/29/20 13:20	03/02/20 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		61 - 130				02/29/20 13:20	03/02/20 17:23	1
Dibromofluoromethane	95		68 - 140				02/29/20 13:20	03/02/20 17:23	1
Toluene-d8 (Surr)	97		50 - 130				02/29/20 13:20	03/02/20 17:23	1
4-Bromofluorobenzene	95		57 - 140				02/29/20 13:20	03/02/20 17:23	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.655	U	1.12	0.655	mg/Kg	☼	03/03/20 13:57	03/05/20 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130				03/03/20 13:57	03/05/20 12:01	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.21	J	9.10	1.88	mg/Kg	☼	03/02/20 15:08	03/05/20 01:22	1
C28-C36	33.0		9.10	5.48	mg/Kg	☼	03/02/20 15:08	03/05/20 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		60 - 140				03/02/20 15:08	03/05/20 01:22	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.16	J	4.40	0.587	mg/Kg	☼		03/17/20 20:38	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		1.0	1.0	%	—		03/05/20 08:20	1
Percent Solids	91.0		1.0	1.0	%			03/05/20 08:20	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-7-0"-3"

Lab Sample ID: 600-201476-13

Date Collected: 02/27/20 15:40

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.730	U	5.79	0.730	ug/Kg	☼	02/29/20 13:20	03/02/20 17:45	1
Ethylbenzene	1.18	U	5.79	1.18	ug/Kg	☼	02/29/20 13:20	03/02/20 17:45	1
Toluene	1.60	U	5.79	1.60	ug/Kg	☼	02/29/20 13:20	03/02/20 17:45	1
Xylenes, Total	1.31	U	5.79	1.31	ug/Kg	☼	02/29/20 13:20	03/02/20 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 130	02/29/20 13:20	03/02/20 17:45	1
Dibromofluoromethane	98		68 - 140	02/29/20 13:20	03/02/20 17:45	1
Toluene-d8 (Surr)	97		50 - 130	02/29/20 13:20	03/02/20 17:45	1
4-Bromofluorobenzene	96		57 - 140	02/29/20 13:20	03/02/20 17:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.640	U	1.09	0.640	mg/Kg	☼	03/03/20 13:57	03/05/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	03/03/20 13:57	03/05/20 12:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.34	J	8.73	1.80	mg/Kg	☼	03/02/20 15:08	03/05/20 01:57	1
C28-C36	41.9		8.73	5.26	mg/Kg	☼	03/02/20 15:08	03/05/20 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		60 - 140	03/02/20 15:08	03/05/20 01:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.93		4.22	0.564	mg/Kg	☼		03/17/20 20:58	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	94.7		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: HA-7-2'

Lab Sample ID: 600-201476-14

Date Collected: 02/27/20 16:00

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.716	U	5.68	0.716	ug/Kg	☼	02/29/20 13:20	03/02/20 18:07	1
Ethylbenzene	1.16	U	5.68	1.16	ug/Kg	☼	02/29/20 13:20	03/02/20 18:07	1
Toluene	1.57	U	5.68	1.57	ug/Kg	☼	02/29/20 13:20	03/02/20 18:07	1
Xylenes, Total	1.28	U	5.68	1.28	ug/Kg	☼	02/29/20 13:20	03/02/20 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 130	02/29/20 13:20	03/02/20 18:07	1
Dibromofluoromethane	99		68 - 140	02/29/20 13:20	03/02/20 18:07	1
Toluene-d8 (Surr)	92		50 - 130	02/29/20 13:20	03/02/20 18:07	1
4-Bromofluorobenzene	98		57 - 140	02/29/20 13:20	03/02/20 18:07	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-7-2'

Lab Sample ID: 600-201476-14

Date Collected: 02/27/20 16:00

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.635	U	1.08	0.635	mg/Kg	☼	03/03/20 13:57	03/05/20 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130	03/03/20 13:57	03/05/20 12:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.95	J	8.78	1.81	mg/Kg	☼	03/02/20 15:08	03/05/20 03:04	1

C28-C36	30.2		8.78	5.29	mg/Kg	☼	03/02/20 15:08	03/05/20 03:04	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140	03/02/20 15:08	03/05/20 03:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.36	J	4.24	0.567	mg/Kg	☼		03/17/20 21:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		1.0	1.0	%			03/05/20 08:20	1

Percent Solids	94.2		1.0	1.0	%			03/05/20 08:20	1
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Client Sample ID: HA-8-0"-3"

Lab Sample ID: 600-201476-15

Date Collected: 02/27/20 16:25

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.851	U	6.75	0.851	ug/Kg	☼	02/29/20 13:20	03/06/20 15:53	1
Ethylbenzene	1.38	U	6.75	1.38	ug/Kg	☼	02/29/20 13:20	03/06/20 15:53	1
Toluene	1.86	U	6.75	1.86	ug/Kg	☼	02/29/20 13:20	03/06/20 15:53	1
Xylenes, Total	1.53	U	6.75	1.53	ug/Kg	☼	02/29/20 13:20	03/06/20 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		61 - 130	02/29/20 13:20	03/06/20 15:53	1
Dibromofluoromethane	110		68 - 140	02/29/20 13:20	03/06/20 15:53	1
Toluene-d8 (Surr)	109		50 - 130	02/29/20 13:20	03/06/20 15:53	1
4-Bromofluorobenzene	118		57 - 140	02/29/20 13:20	03/06/20 15:53	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.625	U	1.07	0.625	mg/Kg	☼	03/03/20 13:57	03/05/20 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130	03/03/20 13:57	03/05/20 13:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.57	J	8.78	1.81	mg/Kg	☼	03/02/20 15:08	03/05/20 03:38	1

C28-C36	53.9		8.78	5.29	mg/Kg	☼	03/02/20 15:08	03/05/20 03:38	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-8-0"-3"

Lab Sample ID: 600-201476-15

Date Collected: 02/27/20 16:25

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.4

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		60 - 140				03/02/20 15:08	03/05/20 03:38	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.97		4.24	0.566	mg/Kg	☼		03/17/20 22:20	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		1.0	1.0	%	-		03/05/20 08:20	1
Percent Solids	94.4		1.0	1.0	%	-		03/05/20 08:20	1

Client Sample ID: HA-8-2-6"

Lab Sample ID: 600-201476-16

Date Collected: 02/27/20 16:45

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 94.9

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.811	U	6.44	0.811	ug/Kg	☼	02/29/20 13:20	03/06/20 14:34	1
Ethylbenzene	1.31	U	6.44	1.31	ug/Kg	☼	02/29/20 13:20	03/06/20 14:34	1
Toluene	2.60	J	6.44	1.78	ug/Kg	☼	02/29/20 13:20	03/06/20 14:34	1
Xylenes, Total	3.11	J	6.44	1.45	ug/Kg	☼	02/29/20 13:20	03/06/20 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 130				02/29/20 13:20	03/06/20 14:34	1
Dibromofluoromethane	102		68 - 140				02/29/20 13:20	03/06/20 14:34	1
Toluene-d8 (Surr)	106		50 - 130				02/29/20 13:20	03/06/20 14:34	1
4-Bromofluorobenzene	111		57 - 140				02/29/20 13:20	03/06/20 14:34	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.623	U	1.06	0.623	mg/Kg	☼	03/03/20 13:57	03/05/20 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130				03/03/20 13:57	03/05/20 13:37	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.23	J F1	8.72	1.80	mg/Kg	☼	03/02/20 15:08	03/05/20 04:12	1
C28-C36	29.3		8.72	5.25	mg/Kg	☼	03/02/20 15:08	03/05/20 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140				03/02/20 15:08	03/05/20 04:12	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.37	J	4.22	0.563	mg/Kg	☼		03/17/20 22:40	1
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		1.0	1.0	%	—		03/05/20 08:20	1
Percent Solids	94.9		1.0	1.0	%			03/05/20 08:20	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: BG-1-0"-3"

Lab Sample ID: 600-201476-17

Date Collected: 02/27/20 17:00

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 96.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.08	J *	5.22	0.658	ug/Kg	☼	02/29/20 13:20	03/06/20 15:02	1
Ethylbenzene	1.06	U *	5.22	1.06	ug/Kg	☼	02/29/20 13:20	03/06/20 15:02	1
Toluene	7.56	*	5.22	1.44	ug/Kg	☼	02/29/20 13:20	03/06/20 15:02	1
Xylenes, Total	3.97	J *	5.22	1.18	ug/Kg	☼	02/29/20 13:20	03/06/20 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	*	61 - 130	02/29/20 13:20	03/06/20 15:02	1
Dibromofluoromethane	105	*	68 - 140	02/29/20 13:20	03/06/20 15:02	1
Toluene-d8 (Surr)	101	*	50 - 130	02/29/20 13:20	03/06/20 15:02	1
4-Bromofluorobenzene	113	*	57 - 140	02/29/20 13:20	03/06/20 15:02	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.593	U	1.01	0.593	mg/Kg	☼	03/03/20 13:57	03/05/20 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a.a.a-Trifluorotoluene	100		70 - 130				03/03/20 13:57	03/05/20 14:01	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10.1		8.56	1.76	mg/Kg	☼	03/02/20 16:44	03/05/20 05:54	1
C28-C36	54.2		8.56	5.16	mg/Kg	☼	03/02/20 16:44	03/05/20 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	79		60 - 140				03/02/20 16:44	03/05/20 05:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.40	J	4.14	0.552	mg/Kg	☼		03/17/20 23:01	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	96.7		1.0	1.0	%			03/05/20 08:20	1

Client Sample ID: BG-1-2'

Lab Sample ID: 600-201476-18

Date Collected: 02/27/20 17:15

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 96.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.48	J	5.64	0.711	ug/Kg	☼	02/29/20 13:20	03/06/20 15:27	1
Ethylbenzene	1.27	J	5.64	1.15	ug/Kg	☼	02/29/20 13:20	03/06/20 15:27	1
Toluene	7.77		5.64	1.56	ug/Kg	☼	02/29/20 13:20	03/06/20 15:27	1
Xylenes, Total	6.37		5.64	1.27	ug/Kg	☼	02/29/20 13:20	03/06/20 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		61 - 130	02/29/20 13:20	03/06/20 15:27	1
Dibromofluoromethane	103		68 - 140	02/29/20 13:20	03/06/20 15:27	1
Toluene-d8 (Surr)	109		50 - 130	02/29/20 13:20	03/06/20 15:27	1
4-Bromofluorobenzene	116		57 - 140	02/29/20 13:20	03/06/20 15:27	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: BG-1-2'

Lab Sample ID: 600-201476-18

Date Collected: 02/27/20 17:15

Matrix: Solid

Date Received: 02/29/20 08:54

Percent Solids: 96.9

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.610	U	1.04	0.610	mg/Kg	☼	03/03/20 13:59	03/05/20 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130	03/03/20 13:59	03/05/20 14:26	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.98	J	8.51	1.75	mg/Kg	☼	03/02/20 16:44	03/05/20 06:28	1

C28-C36	29.3		8.51	5.13	mg/Kg	☼	03/02/20 16:44	03/05/20 06:28	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		60 - 140	03/02/20 16:44	03/05/20 06:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.05	J	4.13	0.551	mg/Kg	☼		03/17/20 23:21	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.1		1.0	1.0	%			03/05/20 08:20	1
Percent Solids	96.9		1.0	1.0	%			03/05/20 08:20	1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F7	MS/MSD RPD exceeds control limits. Sample size differs by <10%
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-201476-1	HA-2-0"-3"	92	97	96	98
600-201476-2	HA-2-2'	97	98	101	103
600-201476-3	HA-2-4'	101	96	100	96
600-201476-4	HA-1-0"-3"	95	98	93	97
600-201476-5	HA-3-0"-3"	96	97	99	99
600-201476-6	HA-3-2'	102	99	98	100
600-201476-7	HA-4-0"-3"	93	93	94	94
600-201476-8	HA-4-18"	94	98	96	99
600-201476-9	HA-5-0"-3"	94	97	97	91
600-201476-10	HA-5-2'-6"	99	99	93	96
600-201476-11	HA-6-0'-3'	99	101	96	97
600-201476-12	HA-6-2'	89	95	97	95
600-201476-13	HA-7-0"-3"	97	98	97	96
600-201476-14	HA-7-2'	97	99	92	98
600-201476-15	HA-8-0"-3"	109	110	109	118
600-201476-16	HA-8-2-6"	102	102	106	111
600-201476-17	BG-1-0"-3"	120 *	105 *	101 *	113 *
600-201476-18	BG-1-2'	106	103	109	116
LCS 600-289132/3	Lab Control Sample	96	99	95	95
LCS 600-289627/4	Lab Control Sample	93	100	98	106
LCSD 600-289132/4	Lab Control Sample Dup	95	99	98	98
LCSD 600-289627/5	Lab Control Sample Dup	97	104	100	108
MB 600-289132/6	Method Blank	103	96	96	95
MB 600-289627/8	Method Blank	99	99	105	110

Surrogate Legend

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-201476-1	HA-2-0"-3"	103			
600-201476-2	HA-2-2'	110			
600-201476-3	HA-2-4'	112			
600-201476-4	HA-1-0"-3"	121			
600-201476-5	HA-3-0"-3"	123			
600-201476-6	HA-3-2'	118			
600-201476-7	HA-4-0"-3"	119			
600-201476-8	HA-4-18"	104			
600-201476-9	HA-5-0"-3"	119			
600-201476-10	HA-5-2'-6"	103			
600-201476-11	HA-6-0'-3'	108			
600-201476-12	HA-6-2'	101			
600-201476-13	HA-7-0"-3"	104			

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Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-201476-14	HA-7-2'	105
600-201476-15	HA-8-0"-3"	99
600-201476-16	HA-8-2-6"	102
600-201476-17	BG-1-0"-3"	100
600-201476-18	BG-1-2'	105
LCS 600-289319/1-A	Lab Control Sample	125
LCSD 600-289319/2-A	Lab Control Sample Dup	122
MB 600-289319/3-A	Method Blank	120

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-201476-1	HA-2-0"-3"	102
600-201476-2	HA-2-2'	73
600-201476-3	HA-2-4'	6 X
600-201476-4	HA-1-0"-3"	91
600-201476-5	HA-3-0"-3"	80
600-201476-6	HA-3-2'	79
600-201476-7	HA-4-0"-3"	76
600-201476-8	HA-4-18"	87
600-201476-9	HA-5-0"-3"	84
600-201476-10	HA-5-2'-6"	73
600-201476-11	HA-6-0'-3'	92
600-201476-12	HA-6-2'	71
600-201476-13	HA-7-0"-3"	85
600-201476-14	HA-7-2'	74
600-201476-15	HA-8-0"-3"	78
600-201476-16	HA-8-2-6"	73
600-201476-16 MS	HA-8-2-6"	166 X
600-201476-16 MSD	HA-8-2-6"	83
600-201476-17	BG-1-0"-3"	79
600-201476-18	BG-1-2'	82
LCS 600-289214/2-A	Lab Control Sample	93
LCS 600-289787/2-A	Lab Control Sample	84
LCSD 600-289214/3-A	Lab Control Sample Dup	92
LCSD 600-289787/3-A	Lab Control Sample Dup	90
MB 600-289214/1-A	Method Blank	86
MB 600-289787/1-A	Method Blank	91

Surrogate Legend

OTPH = o-Terphenyl

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

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

Lab Sample ID: MB 600-289132/6

Matrix: Solid

Analysis Batch: 289132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			03/02/20 10:51	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			03/02/20 10:51	1
Toluene	1.38	U	5.00	1.38	ug/Kg			03/02/20 10:51	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			03/02/20 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		03/02/20 10:51	1
Dibromofluoromethane	96		68 - 140		03/02/20 10:51	1
Toluene-d8 (Surr)	96		50 - 130		03/02/20 10:51	1
4-Bromofluorobenzene	95		57 - 140		03/02/20 10:51	1

Lab Sample ID: LCS 600-289132/3

Matrix: Solid

Analysis Batch: 289132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.28		ug/Kg		93	70 - 131
Ethylbenzene	50.0	56.21		ug/Kg		112	66 - 130
Toluene	50.0	51.20		ug/Kg		102	67 - 130
Xylenes, Total	100	109.1		ug/Kg		109	63 - 130
m-Xylene & p-Xylene	50.0	53.62		ug/Kg		107	64 - 130
o-Xylene	50.0	55.44		ug/Kg		111	62 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		61 - 130
Dibromofluoromethane	99		68 - 140
Toluene-d8 (Surr)	95		50 - 130
4-Bromofluorobenzene	95		57 - 140

Lab Sample ID: LCSD 600-289132/4

Matrix: Solid

Analysis Batch: 289132

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.75		ug/Kg		95	70 - 131	3	30
Ethylbenzene	50.0	58.53		ug/Kg		117	66 - 130	4	30
Toluene	50.0	51.84		ug/Kg		104	67 - 130	1	30
Xylenes, Total	100	110.4		ug/Kg		110	63 - 130	1	30
m-Xylene & p-Xylene	50.0	53.72		ug/Kg		107	64 - 130	0	30
o-Xylene	50.0	56.63		ug/Kg		113	62 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		61 - 130
Dibromofluoromethane	99		68 - 140
Toluene-d8 (Surr)	98		50 - 130
4-Bromofluorobenzene	98		57 - 140

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

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

Lab Sample ID: MB 600-289627/8

Matrix: Solid

Analysis Batch: 289627

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			03/06/20 14:07	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			03/06/20 14:07	1
Toluene	1.38	U	5.00	1.38	ug/Kg			03/06/20 14:07	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			03/06/20 14:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130		03/06/20 14:07	1
Dibromofluoromethane	99		68 - 140		03/06/20 14:07	1
Toluene-d8 (Surr)	105		50 - 130		03/06/20 14:07	1
4-Bromofluorobenzene	110		57 - 140		03/06/20 14:07	1

Lab Sample ID: LCS 600-289627/4

Matrix: Solid

Analysis Batch: 289627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.77		ug/Kg		102	70 - 131
Ethylbenzene	50.0	47.15		ug/Kg		94	66 - 130
Toluene	50.0	44.31		ug/Kg		89	67 - 130
Xylenes, Total	100	92.29		ug/Kg		92	63 - 130
m-Xylene & p-Xylene	50.0	47.16		ug/Kg		94	64 - 130
o-Xylene	50.0	45.13		ug/Kg		90	62 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		61 - 130
Dibromofluoromethane	100		68 - 140
Toluene-d8 (Surr)	98		50 - 130
4-Bromofluorobenzene	106		57 - 140

Lab Sample ID: LCSD 600-289627/5

Matrix: Solid

Analysis Batch: 289627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	56.47		ug/Kg		113	70 - 131	11	30
Ethylbenzene	50.0	52.87		ug/Kg		106	66 - 130	11	30
Toluene	50.0	50.05		ug/Kg		100	67 - 130	12	30
Xylenes, Total	100	103.0		ug/Kg		103	63 - 130	11	30
m-Xylene & p-Xylene	50.0	52.68		ug/Kg		105	64 - 130	11	30
o-Xylene	50.0	50.34		ug/Kg		101	62 - 130	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		61 - 130
Dibromofluoromethane	104		68 - 140
Toluene-d8 (Surr)	100		50 - 130
4-Bromofluorobenzene	108		57 - 140

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-289319/3-A

Matrix: Solid

Analysis Batch: 289257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289319

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg	-	03/03/20 13:57	03/03/20 16:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	120		70 - 130				03/03/20 13:57	03/03/20 16:49	1

Lab Sample ID: LCS 600-289319/1-A

Matrix: Solid

Analysis Batch: 289257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289319

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics [C6 - C10]		5.00	5.216		mg/Kg	-	104	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	125		70 - 130						

Lab Sample ID: LCSD 600-289319/2-A

Matrix: Solid

Analysis Batch: 289257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 289319

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]		5.00	5.269		mg/Kg	-	105	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
a,a,a-Trifluorotoluene	122		70 - 130							

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-289214/1-A

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289214

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.71	U	8.29	1.71	mg/Kg	-	03/02/20 15:08	03/04/20 16:57	1
C28-C36	4.99	U	8.29	4.99	mg/Kg	-	03/02/20 15:08	03/04/20 16:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		60 - 140				03/02/20 15:08	03/04/20 16:57	1

Lab Sample ID: LCS 600-289214/2-A

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289214

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Diesel Range Organics [C10-C28]		66.4	55.57		mg/Kg	-	84	66 - 134	

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-289214/2-A

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289214

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	93		60 - 140

Lab Sample ID: LCSD 600-289214/3-A

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 289214

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]			66.5	48.61		mg/Kg		73	66 - 134	13	30
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
o-Terphenyl	92		60 - 140								

Lab Sample ID: 600-201476-16 MS

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: HA-8-2-6"

Prep Type: Total/NA

Prep Batch: 289214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	4.23	J F1	70.3	47.71	F1	mg/Kg	☼	62	66 - 134		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
o-Terphenyl	166	X	60 - 140								

Lab Sample ID: 600-201476-16 MSD

Matrix: Solid

Analysis Batch: 289522

Client Sample ID: HA-8-2-6"

Prep Type: Total/NA

Prep Batch: 289214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	4.23	J F1	70.0	50.81		mg/Kg	☼	67	66 - 134	6	30
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
o-Terphenyl	83		60 - 140								

Lab Sample ID: MB 600-289787/1-A

Matrix: Solid

Analysis Batch: 289877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 289787

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	8.25	1.70	mg/Kg		03/09/20 18:46	03/11/20 08:22	1
C28-C36	4.97	U	8.25	4.97	mg/Kg		03/09/20 18:46	03/11/20 08:22	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
o-Terphenyl	91		60 - 140				03/09/20 18:46	03/11/20 08:22	1

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-289787/2-A

Matrix: Solid

Analysis Batch: 289877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 289787

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			66.4	55.74		mg/Kg	-	84	66 - 134		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
o-Terphenyl	84		60 - 140								

Lab Sample ID: LCSD 600-289787/3-A

Matrix: Solid

Analysis Batch: 289877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 289787

Appendix B - Sample Data - 2009											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	58.04		mg/Kg	-	87	66 - 134	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
o-Terphenyl	90		60 - 140								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-290324/1-A

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg	-		03/17/20 13:52	1

Lab Sample ID: LCS 600-290324/2-A

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	189.2		mg/Kg	-	95	90 - 110

Lab Sample ID: 600-201476-1 MS

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: HA-2-0"-3"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.5	F1 F2	105	117.3		mg/Kg	☼	97	80 - 120

Lab Sample ID: 600-201476-1 MSD

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: HA-2-0"-3"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	15.5	F1 F2	105	163.5	F1 F7	mg/Kg	☼	141	80 - 120	33	20

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-201476-11 MS

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: HA-6-0'-3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11.6		105	114.5		mg/Kg	☼	98	80 - 120

Lab Sample ID: 600-201476-11 MSD

Matrix: Solid

Analysis Batch: 290432

Client Sample ID: HA-6-0'-3'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11.6		105	113.4		mg/Kg	☼	97	80 - 120	1	20

Method: 2540B - Percent Moisture

Lab Sample ID: 600-201476-1 DU

Matrix: Solid

Analysis Batch: 289481

Client Sample ID: HA-2-0"-3"

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.0		5.0		%		0.5	20
Percent Solids	95.0		95.0		%		0	20

Lab Sample ID: 600-201476-11 DU

Matrix: Solid

Analysis Batch: 289481

Client Sample ID: HA-6-0'-3'

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.0		4.9		%		0.7	20
Percent Solids	95.0		95.1		%		0	20

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Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

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

Prep: 5035

Analyte	MQL	MDL	Units
Benzene	5.00	0.630	ug/Kg
Ethylbenzene	5.00	1.02	ug/Kg
Toluene	5.00	1.38	ug/Kg
Xylenes, Total	5.00	1.13	ug/Kg

Method: 8015B - Gasoline Range Organics - (GC)

Prep: 5030B

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	1.00	0.586	mg/Kg

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3546

Analyte	MQL	MDL	Units
C28-C36	8.30	5.00	mg/Kg
Diesel Range Organics [C10-C28]	8.30	1.71	mg/Kg

Method: 300.0 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

Analyte	MQL	MDL	Units
Percent Moisture	1.0	1.0	%
Percent Solids	1.0	1.0	%

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

GC/MS VOA

Analysis Batch: 289132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	8260B	289161
600-201476-2	HA-2-2'	Total/NA	Solid	8260B	289161
600-201476-3	HA-2-4'	Total/NA	Solid	8260B	289161
600-201476-4	HA-1-0"-3"	Total/NA	Solid	8260B	289161
600-201476-5	HA-3-0"-3"	Total/NA	Solid	8260B	289161
600-201476-6	HA-3-2'	Total/NA	Solid	8260B	289161
600-201476-7	HA-4-0"-3"	Total/NA	Solid	8260B	289161
600-201476-8	HA-4-18"	Total/NA	Solid	8260B	289161
600-201476-9	HA-5-0"-3"	Total/NA	Solid	8260B	289161
600-201476-10	HA-5-2'-6"	Total/NA	Solid	8260B	289161
600-201476-11	HA-6-0'-3'	Total/NA	Solid	8260B	289161
600-201476-12	HA-6-2'	Total/NA	Solid	8260B	289161
600-201476-13	HA-7-0"-3"	Total/NA	Solid	8260B	289161
600-201476-14	HA-7-2'	Total/NA	Solid	8260B	289161
MB 600-289132/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-289132/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-289132/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 289161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	5035	
600-201476-2	HA-2-2'	Total/NA	Solid	5035	
600-201476-3	HA-2-4'	Total/NA	Solid	5035	
600-201476-4	HA-1-0"-3"	Total/NA	Solid	5035	
600-201476-5	HA-3-0"-3"	Total/NA	Solid	5035	
600-201476-6	HA-3-2'	Total/NA	Solid	5035	
600-201476-7	HA-4-0"-3"	Total/NA	Solid	5035	
600-201476-8	HA-4-18"	Total/NA	Solid	5035	
600-201476-9	HA-5-0"-3"	Total/NA	Solid	5035	
600-201476-10	HA-5-2'-6"	Total/NA	Solid	5035	
600-201476-11	HA-6-0'-3'	Total/NA	Solid	5035	
600-201476-12	HA-6-2'	Total/NA	Solid	5035	
600-201476-13	HA-7-0"-3"	Total/NA	Solid	5035	
600-201476-14	HA-7-2'	Total/NA	Solid	5035	
600-201476-15	HA-8-0"-3"	Total/NA	Solid	5035	
600-201476-16	HA-8-2-6"	Total/NA	Solid	5035	
600-201476-17	BG-1-0"-3"	Total/NA	Solid	5035	
600-201476-18	BG-1-2'	Total/NA	Solid	5035	

Analysis Batch: 289627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-15	HA-8-0"-3"	Total/NA	Solid	8260B	289161
600-201476-16	HA-8-2-6"	Total/NA	Solid	8260B	289161
600-201476-17	BG-1-0"-3"	Total/NA	Solid	8260B	289161
600-201476-18	BG-1-2'	Total/NA	Solid	8260B	289161
MB 600-289627/8	Method Blank	Total/NA	Solid	8260B	
LCS 600-289627/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-289627/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

GC VOA

Analysis Batch: 289257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	8015B	289319
600-201476-2	HA-2-2'	Total/NA	Solid	8015B	289319
600-201476-3	HA-2-4'	Total/NA	Solid	8015B	289319
600-201476-4	HA-1-0"-3"	Total/NA	Solid	8015B	289319
600-201476-5	HA-3-0"-3"	Total/NA	Solid	8015B	289319
600-201476-6	HA-3-2'	Total/NA	Solid	8015B	289319
600-201476-7	HA-4-0"-3"	Total/NA	Solid	8015B	289319
MB 600-289319/3-A	Method Blank	Total/NA	Solid	8015B	289319
LCS 600-289319/1-A	Lab Control Sample	Total/NA	Solid	8015B	289319
LCSD 600-289319/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	289319

Prep Batch: 289319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	5030B	
600-201476-2	HA-2-2'	Total/NA	Solid	5030B	
600-201476-3	HA-2-4'	Total/NA	Solid	5030B	
600-201476-4	HA-1-0"-3"	Total/NA	Solid	5030B	
600-201476-5	HA-3-0"-3"	Total/NA	Solid	5030B	
600-201476-6	HA-3-2'	Total/NA	Solid	5030B	
600-201476-7	HA-4-0"-3"	Total/NA	Solid	5030B	
600-201476-8	HA-4-18"	Total/NA	Solid	5030B	
600-201476-9	HA-5-0"-3"	Total/NA	Solid	5030B	
600-201476-10	HA-5-2'-6"	Total/NA	Solid	5030B	
600-201476-11	HA-6-0'-3'	Total/NA	Solid	5030B	
600-201476-12	HA-6-2'	Total/NA	Solid	5030B	
600-201476-13	HA-7-0"-3"	Total/NA	Solid	5030B	
600-201476-14	HA-7-2'	Total/NA	Solid	5030B	
600-201476-15	HA-8-0"-3"	Total/NA	Solid	5030B	
600-201476-16	HA-8-2-6"	Total/NA	Solid	5030B	
600-201476-17	BG-1-0"-3"	Total/NA	Solid	5030B	
600-201476-18	BG-1-2'	Total/NA	Solid	5030B	
MB 600-289319/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-289319/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-289319/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 289501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-8	HA-4-18"	Total/NA	Solid	8015B	289319
600-201476-9	HA-5-0"-3"	Total/NA	Solid	8015B	289319
600-201476-10	HA-5-2'-6"	Total/NA	Solid	8015B	289319
600-201476-11	HA-6-0'-3'	Total/NA	Solid	8015B	289319
600-201476-12	HA-6-2'	Total/NA	Solid	8015B	289319
600-201476-13	HA-7-0"-3"	Total/NA	Solid	8015B	289319
600-201476-14	HA-7-2'	Total/NA	Solid	8015B	289319
600-201476-15	HA-8-0"-3"	Total/NA	Solid	8015B	289319
600-201476-16	HA-8-2-6"	Total/NA	Solid	8015B	289319
600-201476-17	BG-1-0"-3"	Total/NA	Solid	8015B	289319
600-201476-18	BG-1-2'	Total/NA	Solid	8015B	289319

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

GC Semi VOA

Prep Batch: 289214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	3546	
600-201476-2	HA-2-2'	Total/NA	Solid	3546	
600-201476-3	HA-2-4'	Total/NA	Solid	3546	
600-201476-4	HA-1-0"-3"	Total/NA	Solid	3546	
600-201476-5	HA-3-0"-3"	Total/NA	Solid	3546	
600-201476-6	HA-3-2'	Total/NA	Solid	3546	
600-201476-7	HA-4-0"-3"	Total/NA	Solid	3546	
600-201476-8	HA-4-18"	Total/NA	Solid	3546	
600-201476-9	HA-5-0"-3"	Total/NA	Solid	3546	
600-201476-10	HA-5-2'-6"	Total/NA	Solid	3546	
600-201476-11	HA-6-0'-3'	Total/NA	Solid	3546	
600-201476-12	HA-6-2'	Total/NA	Solid	3546	
600-201476-13	HA-7-0"-3"	Total/NA	Solid	3546	
600-201476-14	HA-7-2'	Total/NA	Solid	3546	
600-201476-15	HA-8-0"-3"	Total/NA	Solid	3546	
600-201476-16	HA-8-2-6"	Total/NA	Solid	3546	
600-201476-17	BG-1-0"-3"	Total/NA	Solid	3546	
600-201476-18	BG-1-2'	Total/NA	Solid	3546	
MB 600-289214/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-289214/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-289214/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
600-201476-16 MS	HA-8-2-6"	Total/NA	Solid	3546	
600-201476-16 MSD	HA-8-2-6"	Total/NA	Solid	3546	

Analysis Batch: 289522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	8015B	289214
600-201476-2	HA-2-2'	Total/NA	Solid	8015B	289214
600-201476-3	HA-2-4'	Total/NA	Solid	8015B	289214
600-201476-4	HA-1-0"-3"	Total/NA	Solid	8015B	289214
600-201476-5	HA-3-0"-3"	Total/NA	Solid	8015B	289214
600-201476-6	HA-3-2'	Total/NA	Solid	8015B	289214
600-201476-7	HA-4-0"-3"	Total/NA	Solid	8015B	289214
600-201476-8	HA-4-18"	Total/NA	Solid	8015B	289214
600-201476-9	HA-5-0"-3"	Total/NA	Solid	8015B	289214
600-201476-10	HA-5-2'-6"	Total/NA	Solid	8015B	289214
600-201476-11	HA-6-0'-3'	Total/NA	Solid	8015B	289214
600-201476-12	HA-6-2'	Total/NA	Solid	8015B	289214
600-201476-13	HA-7-0"-3"	Total/NA	Solid	8015B	289214
600-201476-14	HA-7-2'	Total/NA	Solid	8015B	289214
600-201476-15	HA-8-0"-3"	Total/NA	Solid	8015B	289214
600-201476-16	HA-8-2-6"	Total/NA	Solid	8015B	289214
600-201476-17	BG-1-0"-3"	Total/NA	Solid	8015B	289214
600-201476-18	BG-1-2'	Total/NA	Solid	8015B	289214
MB 600-289214/1-A	Method Blank	Total/NA	Solid	8015B	289214
LCS 600-289214/2-A	Lab Control Sample	Total/NA	Solid	8015B	289214
LCSD 600-289214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	289214
600-201476-16 MS	HA-8-2-6"	Total/NA	Solid	8015B	289214
600-201476-16 MSD	HA-8-2-6"	Total/NA	Solid	8015B	289214

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

GC Semi VOA

Prep Batch: 289787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-289787/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-289787/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-289787/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 289877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-289787/1-A	Method Blank	Total/NA	Solid	8015B	289787
LCS 600-289787/2-A	Lab Control Sample	Total/NA	Solid	8015B	289787
LCSD 600-289787/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	289787

HPLC/IC

Leach Batch: 290324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Soluble	Solid	DI Leach	
600-201476-2	HA-2-2'	Soluble	Solid	DI Leach	
600-201476-3	HA-2-4'	Soluble	Solid	DI Leach	
600-201476-4	HA-1-0"-3"	Soluble	Solid	DI Leach	
600-201476-5	HA-3-0"-3"	Soluble	Solid	DI Leach	
600-201476-6	HA-3-2'	Soluble	Solid	DI Leach	
600-201476-7	HA-4-0"-3"	Soluble	Solid	DI Leach	
600-201476-8	HA-4-18"	Soluble	Solid	DI Leach	
600-201476-9	HA-5-0"-3"	Soluble	Solid	DI Leach	
600-201476-10	HA-5-2'-6"	Soluble	Solid	DI Leach	
600-201476-11	HA-6-0'-3'	Soluble	Solid	DI Leach	
600-201476-12	HA-6-2'	Soluble	Solid	DI Leach	
600-201476-13	HA-7-0"-3"	Soluble	Solid	DI Leach	
600-201476-14	HA-7-2'	Soluble	Solid	DI Leach	
600-201476-15	HA-8-0"-3"	Soluble	Solid	DI Leach	
600-201476-16	HA-8-2-6"	Soluble	Solid	DI Leach	
600-201476-17	BG-1-0"-3"	Soluble	Solid	DI Leach	
600-201476-18	BG-1-2'	Soluble	Solid	DI Leach	
MB 600-290324/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-290324/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-201476-1 MS	HA-2-0"-3"	Soluble	Solid	DI Leach	
600-201476-1 MSD	HA-2-0"-3"	Soluble	Solid	DI Leach	
600-201476-11 MS	HA-6-0'-3'	Soluble	Solid	DI Leach	
600-201476-11 MSD	HA-6-0'-3'	Soluble	Solid	DI Leach	

Analysis Batch: 290432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Soluble	Solid	300.0	290324
600-201476-2	HA-2-2'	Soluble	Solid	300.0	290324
600-201476-3	HA-2-4'	Soluble	Solid	300.0	290324
600-201476-4	HA-1-0"-3"	Soluble	Solid	300.0	290324
600-201476-5	HA-3-0"-3"	Soluble	Solid	300.0	290324
600-201476-6	HA-3-2'	Soluble	Solid	300.0	290324
600-201476-7	HA-4-0"-3"	Soluble	Solid	300.0	290324
600-201476-8	HA-4-18"	Soluble	Solid	300.0	290324
600-201476-9	HA-5-0"-3"	Soluble	Solid	300.0	290324
600-201476-10	HA-5-2'-6"	Soluble	Solid	300.0	290324

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

HPLC/IC (Continued)

Analysis Batch: 290432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-11	HA-6-0'-3'	Soluble	Solid	300.0	290324
600-201476-12	HA-6-2'	Soluble	Solid	300.0	290324
600-201476-13	HA-7-0"-3"	Soluble	Solid	300.0	290324
600-201476-14	HA-7-2'	Soluble	Solid	300.0	290324
600-201476-15	HA-8-0"-3"	Soluble	Solid	300.0	290324
600-201476-16	HA-8-2-6"	Soluble	Solid	300.0	290324
600-201476-17	BG-1-0"-3"	Soluble	Solid	300.0	290324
600-201476-18	BG-1-2'	Soluble	Solid	300.0	290324
MB 600-290324/1-A	Method Blank	Soluble	Solid	300.0	290324
LCS 600-290324/2-A	Lab Control Sample	Soluble	Solid	300.0	290324
600-201476-1 MS	HA-2-0"-3"	Soluble	Solid	300.0	290324
600-201476-1 MSD	HA-2-0"-3"	Soluble	Solid	300.0	290324
600-201476-11 MS	HA-6-0'-3'	Soluble	Solid	300.0	290324
600-201476-11 MSD	HA-6-0'-3'	Soluble	Solid	300.0	290324

General Chemistry

Analysis Batch: 289481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-201476-1	HA-2-0"-3"	Total/NA	Solid	2540B	
600-201476-2	HA-2-2'	Total/NA	Solid	2540B	
600-201476-3	HA-2-4'	Total/NA	Solid	2540B	
600-201476-4	HA-1-0"-3"	Total/NA	Solid	2540B	
600-201476-5	HA-3-0"-3"	Total/NA	Solid	2540B	
600-201476-6	HA-3-2'	Total/NA	Solid	2540B	
600-201476-7	HA-4-0"-3"	Total/NA	Solid	2540B	
600-201476-8	HA-4-18"	Total/NA	Solid	2540B	
600-201476-9	HA-5-0"-3"	Total/NA	Solid	2540B	
600-201476-10	HA-5-2'-6"	Total/NA	Solid	2540B	
600-201476-11	HA-6-0'-3'	Total/NA	Solid	2540B	
600-201476-12	HA-6-2'	Total/NA	Solid	2540B	
600-201476-13	HA-7-0"-3"	Total/NA	Solid	2540B	
600-201476-14	HA-7-2'	Total/NA	Solid	2540B	
600-201476-15	HA-8-0"-3"	Total/NA	Solid	2540B	
600-201476-16	HA-8-2-6"	Total/NA	Solid	2540B	
600-201476-17	BG-1-0"-3"	Total/NA	Solid	2540B	
600-201476-18	BG-1-2'	Total/NA	Solid	2540B	
600-201476-1 DU	HA-2-0"-3"	Total/NA	Solid	2540B	
600-201476-11 DU	HA-6-0'-3'	Total/NA	Solid	2540B	

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-2-0"-3"**Lab Sample ID: 600-201476-1****Date Collected: 02/27/20 11:40****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-2-0"-3"**Lab Sample ID: 600-201476-1****Date Collected: 02/27/20 11:40****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 95.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 12:01	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 17:12	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 18:38	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 14:51	DAW	TAL HOU

Client Sample ID: HA-2-2'**Lab Sample ID: 600-201476-2****Date Collected: 02/27/20 12:05****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-2-2'**Lab Sample ID: 600-201476-2****Date Collected: 02/27/20 12:05****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 12:23	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 17:36	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 19:11	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 15:52	DAW	TAL HOU

Client Sample ID: HA-2-4'**Lab Sample ID: 600-201476-3****Date Collected: 02/27/20 12:30****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-2-4'

Date Collected: 02/27/20 12:30

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-3

Matrix: Solid

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 12:45	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 17:59	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 19:44	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 16:12	DAW	TAL HOU

Client Sample ID: HA-1-0"-3"

Date Collected: 02/27/20 13:00

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-1-0"-3"

Date Collected: 02/27/20 13:00

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-4

Matrix: Solid

Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 13:08	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 18:23	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 20:51	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 16:33	DAW	TAL HOU

Client Sample ID: HA-3-0"-3"

Date Collected: 02/27/20 13:20

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-3-0"-3"

Date Collected: 02/27/20 13:20

Date Received: 02/29/20 08:54

Lab Sample ID: 600-201476-5

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 13:30	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 18:47	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-3-0"-3"**Lab Sample ID: 600-201476-5****Date Collected: 02/27/20 13:20****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 95.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 21:25	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 16:53	DAW	TAL HOU

Client Sample ID: HA-3-2'**Lab Sample ID: 600-201476-6****Date Collected: 02/27/20 13:40****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-3-2'**Lab Sample ID: 600-201476-6****Date Collected: 02/27/20 13:40****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 13:52	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 19:10	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 21:59	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 17:14	DAW	TAL HOU

Client Sample ID: HA-4-0"-3"**Lab Sample ID: 600-201476-7****Date Collected: 02/27/20 13:55****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-4-0"-3"**Lab Sample ID: 600-201476-7****Date Collected: 02/27/20 13:55****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 96.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 14:15	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289257	03/03/20 19:34	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 22:33	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 18:15	DAW	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-4-18"**Lab Sample ID: 600-201476-8****Date Collected: 02/27/20 14:10****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-4-18"**Lab Sample ID: 600-201476-8****Date Collected: 02/27/20 14:10****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 96.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 14:37	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 15:14	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 23:07	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 18:35	DAW	TAL HOU

Client Sample ID: HA-5-0"-3"**Lab Sample ID: 600-201476-9****Date Collected: 02/27/20 14:35****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-5-0"-3"**Lab Sample ID: 600-201476-9****Date Collected: 02/27/20 14:35****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 95.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 16:15	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 10:50	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/04/20 23:41	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 18:56	DAW	TAL HOU

Client Sample ID: HA-5-2'-6"**Lab Sample ID: 600-201476-10****Date Collected: 02/27/20 15:00****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-5-2'-6"**Lab Sample ID: 600-201476-10****Date Collected: 02/27/20 15:00****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 91.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 16:38	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 11:13	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 00:15	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 19:16	DAW	TAL HOU

Client Sample ID: HA-6-0'-3'**Lab Sample ID: 600-201476-11****Date Collected: 02/27/20 15:10****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-6-0'-3'**Lab Sample ID: 600-201476-11****Date Collected: 02/27/20 15:10****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 95.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 17:00	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 11:37	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 00:49	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 19:37	DAW	TAL HOU

Client Sample ID: HA-6-2'**Lab Sample ID: 600-201476-12****Date Collected: 02/27/20 15:25****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-6-2'**Lab Sample ID: 600-201476-12****Date Collected: 02/27/20 15:25****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 17:23	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 12:01	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-6-2'**Date Collected: 02/27/20 15:25****Date Received: 02/29/20 08:54****Lab Sample ID: 600-201476-12****Matrix: Solid****Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 01:22	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 20:38	DAW	TAL HOU

Client Sample ID: HA-7-0"-3"**Date Collected: 02/27/20 15:40****Date Received: 02/29/20 08:54****Lab Sample ID: 600-201476-13****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-7-0"-3"**Date Collected: 02/27/20 15:40****Date Received: 02/29/20 08:54****Lab Sample ID: 600-201476-13****Matrix: Solid****Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 17:45	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 12:26	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 01:57	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 20:58	DAW	TAL HOU

Client Sample ID: HA-7-2'**Date Collected: 02/27/20 16:00****Date Received: 02/29/20 08:54****Lab Sample ID: 600-201476-14****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-7-2'**Date Collected: 02/27/20 16:00****Date Received: 02/29/20 08:54****Lab Sample ID: 600-201476-14****Matrix: Solid****Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289132	03/02/20 18:07	WS1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 12:49	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 03:04	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 21:19	DAW	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: HA-8-0"-3"**Lab Sample ID: 600-201476-15****Date Collected: 02/27/20 16:25****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-8-0"-3"**Lab Sample ID: 600-201476-15****Date Collected: 02/27/20 16:25****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289627	03/06/20 15:53	YX1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 13:13	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 03:38	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 22:20	DAW	TAL HOU

Client Sample ID: HA-8-2-6"**Lab Sample ID: 600-201476-16****Date Collected: 02/27/20 16:45****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: HA-8-2-6"**Lab Sample ID: 600-201476-16****Date Collected: 02/27/20 16:45****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 94.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289627	03/06/20 14:34	YX1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 13:37	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 15:08	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 04:12	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 22:40	DAW	TAL HOU

Client Sample ID: BG-1-0"-3"**Lab Sample ID: 600-201476-17****Date Collected: 02/27/20 17:00****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Client Sample ID: BG-1-0"-3"**Lab Sample ID: 600-201476-17****Date Collected: 02/27/20 17:00****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289627	03/06/20 15:02	YX1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:57	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 14:01	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 16:44	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 05:54	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 23:01	DAW	TAL HOU

Client Sample ID: BG-1-2'**Lab Sample ID: 600-201476-18****Date Collected: 02/27/20 17:15****Matrix: Solid****Date Received: 02/29/20 08:54**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	289481	03/05/20 08:20	ANP	TAL HOU

Client Sample ID: BG-1-2'**Lab Sample ID: 600-201476-18****Date Collected: 02/27/20 17:15****Matrix: Solid****Date Received: 02/29/20 08:54****Percent Solids: 96.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			289161	02/29/20 13:20	WS1	TAL HOU
Total/NA	Analysis	8260B		1	289627	03/06/20 15:27	YX1	TAL HOU
Total/NA	Prep	5030B			289319	03/03/20 13:59	WS1	TAL HOU
Total/NA	Analysis	8015B		1	289501	03/05/20 14:26	WS1	TAL HOU
Total/NA	Prep	3546			289214	03/02/20 16:44	SMB	TAL HOU
Total/NA	Analysis	8015B		1	289522	03/05/20 06:28	RJV	TAL HOU
Soluble	Leach	DI Leach			290324	03/16/20 12:50	DTN	TAL HOU
Soluble	Analysis	300.0		1	290432	03/17/20 23:21	DAW	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron WDDU Battery

Job ID: 600-201476-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36

14 13 12 11 10 9 8 7 6 5 4 3 2 1

14 13 12 11 10 9 8 7 6 5 4 3 2 1

Eurofins TestAmerica Houston

Loc: 600

201476

Environment Testing
TestAmerica

Sample Receipt Checklist

Date/Time Received:

20 FEB 29 8:54

JOB NUMBER:

CLIENT:

Arcadis

UNPACKED BY:

CARRIER/DRIVER:

FedEx

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 3

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
4409	(Y) / N	Y / N	2.2	U78	-0.1	2.1
5440	(Y) / N	Y / N	4.2	↓	↓	1.1
3400	(Y) / N	Y / N	4.0	↓	↓	3.9
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NO

Acid preserved are <pH 2:

☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER:

pH paper Lot #

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES☐ NO

COMMENTS: CS#951309 #951310 #951311

2/29/20

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-201476-1

Login Number: 201476

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	2.1,1.1,3.9
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ATTACHMENT 4

Final C-141 Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nJXK1534428787
District RP	1RP-4008
Facility ID	
Application ID	pJXK1534428902

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID
Contact Name: Adriane Gifford	Contact Telephone: 832-854-5620
Contact email: agifford@chevron.com	Incident # nJXK1534428787
Contact mailing address: 1500 Louisiana Street Houston, Texas 77002	

Location of Release Source

Latitude 32.17911 Longitude -103.08718
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: West Dollarhide Drinkard Unit Battery	Site Type: Injection Line
Date Release Discovered: 12/5/2015	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	32	24-S	38E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 6.225	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A ruptured injection line released 6.225 bbls of produced water. The affected area is a mixture of caliche, soil and sand.

Incident ID	nJXK1534428787
District RP	1RP-4008
Facility ID	
Application ID	pJXK1534428902

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Incident ID	nJXK1534428787
District RP	1RP-4008
Facility ID	
Application ID	pJXK1534428902

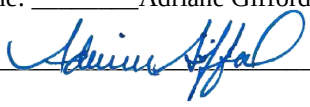
Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs – **All soil borings were 4 feet bgs or less (bedrock refusal was encountered in all borings); therefore, no borings logs were included in this report.**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Adriane Gifford _____ Title: _____ Environmental Project Manger _____

Signature:  _____ Date: 04/20/2020

email: agifford@chevron.com _____ Telephone: _____ 832-854-5620 _____

OCD Only

Received by: _____ Date: _____

Incident ID	nJXK1534428787
District RP	1RP-4008
Facility ID	
Application ID	pJXK1534428902

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) – ***Chevron Operations reportedly excavated shallow soil within the impacted area shortly after the release was reported, no photographic documentation is available.***
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Adriane Gifford _____ Title: _____ Environmental Project Manager _____

Signature: _____

Date: 04/20/2020

email: _____ agifford@chevron.com _____ Telephone: _____ 832-854-5620 _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Bradford Billings _____ Date: 09/20/2021

Printed Name: _____ Bradford Billings _____ Title: _____ Envi.Spec.A _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 5043

CONDITIONS

Operator: Arcadis U.S., Inc 630 Plaza Drive Highlands Ranch, CO 80129	OGRID: 329073
	Action Number: 5043
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Approved but, DTW not accurate enough, although values used are adequate. Also BG sample is odd for use as it contained low TPH values.	9/20/2021