

Limited Subsurface Investigation Dacono – 160 Acres Weld County, Colorado



AGW

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Project Number 241489
July 9, 2024

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EXECUTIVE SUMMARY

As requested, A.G. Wassenaar, Inc. (AGW) conducted a limited subsurface investigation at the property identified as 160 Acres in Dacono in Weld County, Colorado. Based on the project results, two soil samples contained analytes at concentrations greater than regulatory standards.

This limited subsurface investigation was intended to identify the presence or absence of significant contamination from the analytes tested in soils, soil vapor, and/or groundwater at the subject locations. Based on the results of this investigation, it does appear that the subject property has been impacted due to onsite historical oil and gas activities in the locations tested. However, impact appears to be localized to small areas in the vicinity of the UPRR 43 PAN AM I-#4 separator unit and the former UPRR 43 PAN AM S#2 tank battery location.

SCOPE OF WORK

The project was completed in accordance with the scope of work outlined in AGW Proposal Number 241489. Authorization to proceed was provided by Mr. Matt Hengel of Westside Investment Partners, Inc in May 2024.

The purpose of the investigation was to determine the presence or absence of subsurface contamination resulting from current and historical uses of the subject property and surrounding area.

The investigation included the following general tasks:

- Health and Safety Plan Development
- Utility Locating
- Advancement of Soil Borings
- Soil, Soil Vapor, and Groundwater Sampling
- Laboratory Analysis and Data Interpretation
- Report Preparation

BACKGROUND

At the request of Westside Investment Partners, Inc, AGW conducted a Phase I Environmental Site Assessment (ESA) in May 2024 (AGW Project Number 241489). The results of the assessment revealed the following recognized environmental conditions (RECs) in connection with the property:

- *The current onsite oil and gas activity and associated production equipment.*
- *The historical onsite oil and gas activity, based upon the length of time during which the former oil and gas wells operated on the subject property.*
- *The operation of crude oil pipelines and flowlines on and adjacent to the subject property.*

- *The extended period of time the Colorado National Speedway has operated adjacent to the subject property.*

Based on the results of the assessment, AGW recommended a subsurface investigation be conducted on the subject property to determine the presence or absence of significant contamination resulting from current and historical uses of the subject property and surrounding area.

Details regarding the methods used during the project, along with a summary of the field results, laboratory results, and conclusions are presented below.

METHODS AND RESULTS

Health and Safety Plan Development

AGW created a site-specific Health and Safety Plan (HASP) for activities by AGW employees at the site. The plan calls for level D (lowest threat level) protection based on the anticipated chemicals of concern and their potential concentration.

Utility Clearances

In accordance with Colorado law, the project drilling contractor contacted the Utility Notification Center of Colorado (UNCC) and associated utility companies to locate public subsurface utilities in the proposed boring areas prior to borehole advancement. Based on the locates, no subsurface utility conflicts were identified at the borehole locations.

Laboratory Supplied Sampling Containers

Prior to conducting the drilling activities, AGW ordered required sampling containers and quality control blanks from Origins Laboratory, Inc. (Origins) of Denver, Colorado.

Drilling and Soil Sampling Methods

To conduct the drilling activities, AGW retained Site Services Drilling, Inc. (Site Services) of Golden, Colorado. On June 12, 13, and 14, 2024, Site Services utilized a Geoprobe rig to advance a total of 21 boreholes for soil and groundwater sampling. The soil/groundwater boreholes were designated BH-1 through BH-21. Three (3) shallow boreholes were also advanced for the construction of soil vapor points.

The borehole locations were selected to identify potential contaminants originating from onsite and offsite oil and gas activity and the adjacent racetrack facility. Boreholes BH-1 through BH-4 were positioned in the vicinity of active Front Range Farms tank battery and well pad. BH-5 and BH-6 were positioned near the UPRR 43 PAN AM I #11 and #24 pumpjacks, respectively. BH-7 through BH-10 were positioned along the western property boundary, adjacent to the Colorado Speedway. BH-11, SV-1, and SV-2 were located in the vicinity of the plugged and abandoned Front Range Farms #37C-14HZ well pad. BH-12 through BH-14 were positioned near the UPRR 43 PAN AM I-#4 tank battery and pumpjack facility. BH-15, BH-16, BH-20, and SV-3 were positioned in the vicinity of the former UPRR 43 PAN AM S#2 tank battery and well location. BH-17 through BH-19 were positioned near the

crude oil pipeline pigging station and near a historical pipeline release. BH-21 was positioned near the active UPRR 43 PAN AM I-#12 pumpjack. The Site Map in Attachment A provides a satellite photo of the site with the approximate borehole locations.

During drilling, an AGW field geologist collected soil samples for field evaluation at approximate 5-foot intervals. The soil samples were collected from sampling liners within stainless steel probe rods.

To control potential cross-contamination, Site Services cleaned the equipment prior to use using a pressure washer and removed soils from the rods between boreholes. In addition, AGW cleaned the steel sampling rods and water level measuring tape prior to drilling and between uses with an Alconox® detergent and municipal water solution, followed by a municipal water rinse. The AGW field geologist also wore disposable nitrile gloves during sampling to help control potential cross-contamination.

Each borehole was advanced to a depth of 15-40 feet below ground surface (bgs) to attempt to intersect the groundwater table. Soils encountered during this project predominantly consisted of silty sandy clays, sandy clays, coarse sands, and weathered clays. Odorous and stained soils were observed in BH-4, BH-5, BH-14, BH-15, and BH-16. Groundwater, if observed, was generally encountered approximately 10-18 feet bgs during drilling.

To allow for field screening of the soil samples with a photoionization detector (PID), AGW placed a portion of each soil sample into a new sealable plastic bag. Selected soil samples were also placed into new laboratory-supplied glass jars for potential analytical testing.

Soil Field Screening Methods

A portion of each borehole soil sample was also transferred into a sealable plastic bag for field evaluation and screening with a PID. PID screening detects volatile organic compounds (VOCs) with an ionization potential of 10.6 electron volts (eV) or less, including many compounds found in refined petroleum products and solvents. This instrument provides a semi-quantitative analysis.

AGW performed the PID screening by inserting the PID probe into the individual sealed sample bags and recording the instrument response. Generally, PID readings greater than 10 parts per million (ppm, based on calibration to isobutylene) suggest the presence of VOCs above natural background concentrations. However, elevated soil moisture, humidity, and variations in contaminant composition, temperature and soil type can bias the PID results. During this project, PID results were detected at levels ranging from 150-645 ppm with the highest readings detected in samples from BH-16.

Significantly stained or odorous soils were observed during drilling and field screening in samples collected in BH-4, BH-5, BH-14, BH-15, and BH-16. AGW submitted these samples for laboratory analysis.

The filled soil sample containers were immediately sealed, labeled, and placed into a cooler with ice (a preservative). On the day of sample collection, AGW delivered the samples to Origins for analytical

testing. During this project, AGW followed chain-of-custody procedures in general accordance with EPA guidelines. Origins analyzed six (6) soil samples for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and gasoline range organics (GRO) using U.S. EPA Method 8260B and diesel range organics (DRO) using U.S. EPA 8015D.

Soil Analytical Results

Table 1, below, summarizes the soil analytical results. A copy of the laboratory report is included in Attachment B. The results are also illustrated on Figure 1 in Attachment A.

Table 1: Soil Analytical Results
Dacono 160
June 12, 2024

Borehole ID - Depth	Analytes (mg/kg)	ECMC Standards*
BH-4-7	BTEX: ND GRO: ND DRO: ND	- - -
BH-5-6	BTEX: ND GRO: 0.6650 DRO: ND	- - TPH - 500
BH-14-5	BT: ND E: 0.1860 X: 0.0036 GRO: 209 DRO: 307	- 5.8 58 TPH - 500
BH-14-7	BTEX: ND GRO: 1.370 DRO: ND	- TPH - 500
BH-15-8	BTE: ND X: 0.0058 GRO: 155 DRO: 123	- 58 TPH - 500
BH-16-8	BTE: ND X: 0.0038 GRO: 174 DRO: 854	- 58 TPH - 500

Legend:

Detected analytes were compared to standards published in Colorado Energy and Carbon Management Commission's (ECMCs) Table 915-1 for Cleanup Concentrations

ND – Not detected above laboratory method detection level

Benzene (B), Toluene (T), Ethylbenzene (E), Total Xylenes (X), Gasoline Range Organics (GRO), Diesel Range Organics (DRO), Total Petroleum Hydrocarbons (TPH) – TPH = GRO+DRO

To evaluate soil analytical results, detected values were compared to Colorado Energy and Carbon Management Commission's (ECMCs) Table 915-1 for Cleanup Concentrations published in January 2021. Based on the analytical results, two soil samples, BH-14-5 and BH-16-8, contained petroleum compounds at concentrations exceeding regulatory standards.

Groundwater Sampling Methods

Following borehole advancement and sufficient groundwater recharge, AGW collected groundwater samples from 11 boreholes for analytical testing. Groundwater was not encountered in BH-3, BH-10

through BH-16, BH-20, and BH-21. Prior to collecting the samples, AGW measured the depth to groundwater at each location. Groundwater depths ranged between 10 and 18 feet bgs.

To collect the samples, AGW utilized a new dedicated plastic bailer attached to nylon cord at each borehole. Each sample was transferred into three (3) acid-preserved glass vials supplied by the laboratory for testing. The filled sample containers were immediately sealed, labeled, and placed into a cooler with ice (a preservative). On the day of sample collection, AGW delivered six (6) samples to Origins for analytical testing. During this project, AGW followed chain-of-custody procedures in general accordance with EPA guidelines. Origins analyzed 11 groundwater samples for BTEX using U.S. EPA Method 8260B.

Groundwater Analytical Results

Table 2, below, summarizes the groundwater analytical results. A copy of the laboratory report is included in Attachment B.

Table 2: Groundwater Analytical Results
Dacono 160
June 14, 2024

Borehole Number	Analyte Concentrations	ECMC Standards*
BH-1	BTEX - ND	-
BH-2	BTEX - ND	-
BH-4	BTEX - ND	-
BH-5	BTEX - ND	-
BH-6	BTEX - ND	-
BH-7	BTEX - ND	-
BH-8	BTEX - ND	-
BH-9	BTEX - ND	-
BH-17	BTEX - ND	-
BH-18	BTEX - ND	-
BH-19	BTEX - ND	-

Legend:

Detected analytes were compared to standards published in Colorado Energy and Carbon Management Commission's (ECMCs) Table 915-1 for Cleanup Concentrations

ND – Not detected above laboratory method detection level

Benzene (B), Toluene (T), Ethylbenzene (E), Total Xylenes (X)

None of the groundwater samples collected contained petroleum analytes at concentrations greater than laboratory detection limits.

Soil Vapor Point Construction

Soil vapor points SV-1 through SV-3 were advanced to between 4 feet and 5 feet bgs to allow for construction of vapor points and collection of soil gas samples. Vapor points were constructed of 6" stainless steel vapor points and anchors attached to ¼" tubing. Commercial washed quartz sand (10/20) was used to fill the space around the steel anchors and tubing to act as a filter pack. To ensure an adequate seal and control surface water infiltration, hydrated bentonite chips were used to fill the void around the tubing and above the filter pack to the top of the casing.

Soil Gas Screening

Following borehole advancement and vapor point construction, AGW conducted field screening of soil gas from each of the soil vapor points utilizing a four-gas meter. A peristaltic pump and clean tubing were used to evacuate air prior to screening. Once the vapor point was purged, AGW screened the soil gas with a four-gas meter, which detects combustible gases (i.e. methane). During several rounds of field screening, no gases were detected with the four-gas meter from any of the soil vapor points.

Soil Gas Sampling Methods

On June 20, 2024, AGW collected soil gas samples from each of the three (3) soil vapor points. A peristaltic pump and clean tubing were used to evacuate air prior to sample collection. Once the vapor point was purged, AGW collected soil gas samples using a polyvinyl fluoride Tedlar bag. On the day of collection, AGW delivered the samples to an Origins for analytical testing. Four (4) soil gas samples were submitted for analytical testing. During this project, AGW followed chain-of-custody procedures in general accordance with U.S. EPA guidelines.

Soil Gas Analytical Methods

Following soil gas sample collection, AGW delivered the three (3) soil gas samples to Origins for chemical analysis. Soil gas samples were analyzed for methane using U.S. EPA Method ASTM D-1946.

Soil Gas Analytical Results

Table 3, below, summarizes the methane results. A copy of the laboratory report is included in Attachment B. The results are also illustrated on Figure 1 in Attachment A.

Table 3: Soil Gas Analytical Results
Dacono 160
June 20, 2024

Sample ID	Methane Concentration (%)
SV-1	0.00076
SV-2	0.0018
SV-3	0.00023

ND- Not detected above laboratory reporting limits

There are no published state-wide Colorado standards for methane in soil vapor near abandoned oil and gas wells. Therefore, to evaluate the soil vapor analytical results, AGW compared detected concentrations to the Adams County Flammable Gas Overlay Zoning District Regulations that states flammable gas may not be present or the potential for flammable gas may not exist for the buildup of flammable gases to reach 20% LEL (1% by volume) in soil surrounding proposed building plans.

Based on the laboratory analytical results, none of the soil gas samples collected contained methane concentrations that exceeded the 1% referenced guideline threshold.

Additionally, during several rounds of field screening, a four-gas meter did not detect methane in any of the soil vapor points.

DISCUSSION

In June 2024, AGW conducted a limited subsurface investigation at the Dacono property in Weld County, Colorado. The investigation was conducted to evaluate the potential presence or absence of significant contamination resulting from current and historical uses of the subject property and surrounding area.

To allow for collection of soils and groundwater for field evaluation and analytical testing, 21 boreholes were advanced in the vicinity of onsite O&G features and along property boundaries adjacent to the Colorado Speedway.

Soil samples were collected from five (5) of the boreholes and submitted for BTEX, GRO, and DRO analysis. Based on the soil analytical results, two of the soil samples collected contained petroleum compounds at concentrations greater than ECMC standards.

Groundwater samples were collected from 11 boreholes and submitted for laboratory analysis of BTEX. Based on the groundwater analytical results, none of the samples collected contained petroleum analytes at concentrations greater than laboratory detection limits.

Soil vapor samples were collected from each of the three (3) soil vapor points. Based on the laboratory analytical results, none of the soil gas samples collected contained methane concentrations that exceeded the 1% referenced guideline threshold.

LIMITATIONS

AGW's services were performed in a manner consistent with generally accepted practices of the profession undertaken under similar conditions. AGW makes no warranties, either expressed or implied regarding the findings, conclusions, or recommendations. AGW does not warrant the work of third parties that supply laboratory data, regulatory agencies, or others that supply information as part of this investigation. These services were provided based on the scope of work provided to the client and incorporate the general activities discussed. Activities in the field may alter the original scope of work slightly to accommodate unforeseen data gaps or new information. Due to the dynamic nature of the work, AGW incorporated general elements of the ASTM E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

CONCLUSIONS

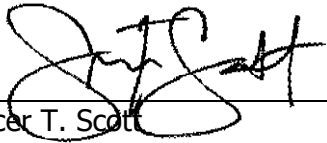
Based on the project results, two soil samples contained petroleum compounds at concentrations greater than ECMC standards.

This limited subsurface investigation was intended to identify the presence or absence of significant contamination from the analytes tested in soils, soil vapor, and/or groundwater at the subject locations. Based on the results of this investigation, it does appear that the subject property has been impacted due to onsite historical oil and gas activities in the locations tested. However, impact

appears to be localized to small areas in the vicinity of the UPRR 43 PAN AM I-#4 separator unit and the former UPRR 43 PAN AM S#2 tank battery location.

Thank you for your review of this report. If you have any questions or require further information, please call us at (303) 759-8373.

Sincerely,
A. G. Wassenaar, Inc.



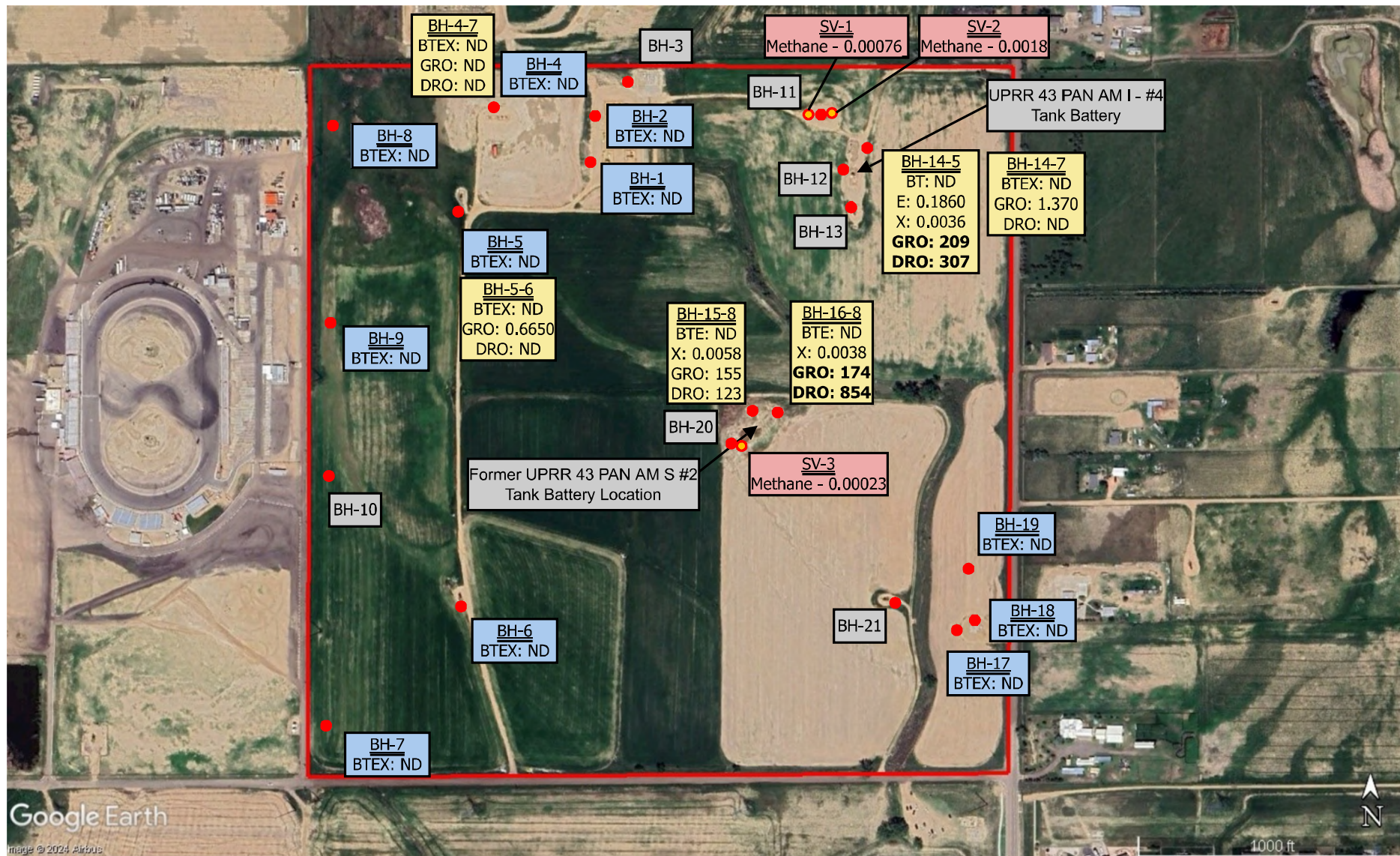
Spencer T. Scott
Project Manager / Environmental Scientist



Rachel A. Peterson, P.G.
Environmental Department Manager

ATTACHMENT A

DIAGRAM



Site Map and Analytical Results
Limited Subsurface Investigation
Dacono - 160 Acres
AGW Project No. 241489
(All Locations Are Approximate)

● Soil/Groundwater Borehole Location ● Soil Vapor Point Location

Based on ECMC Table 915-1 Residential Soil Screening Level Concentrations (ECMC RSSL)
ND: Non-detect, BTEX - benzene, toluene, ethylbenzene, and total xylenes, GRO - gasoline range organics, DRO - diesel range organics, M - Methane
BOLD values exceed ECMC RSSLs

Groundwater Sample ID
in micrograms per liter (ug/L)

Soil Sample ID - Depth (feet bgs)
in milligrams per kilograms (mg/kg)

Soil Vapor Sample ID
in percent volume of air (%)

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS



June 27, 2024

A.G. Wassenaar

Spencer Scott

3211 South Zuni St

Englewood CO 80110

Project Name - Dacono LS1

Project Number - 241489

Attached are your analytical results for Dacono LS1 received by Origins Laboratory, Inc. June 14, 2024. This project is associated with Origins project number Y406444-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1	Y406444-01	Water	June 14, 2024 8:30	06/14/2024 13:55
BH-2	Y406444-02	Water	June 14, 2024 8:35	06/14/2024 13:55
BH-4	Y406444-03	Water	June 14, 2024 8:40	06/14/2024 13:55
BH-5	Y406444-04	Water	June 14, 2024 8:50	06/14/2024 13:55
BH-6	Y406444-05	Water	June 14, 2024 9:05	06/14/2024 13:55
BH-7	Y406444-06	Water	June 14, 2024 9:10	06/14/2024 13:55
BH-8	Y406444-07	Water	June 14, 2024 9:13	06/14/2024 13:55
BH-9	Y406444-08	Water	June 14, 2024 9:16	06/14/2024 13:55

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

ORIGINS
LABORATORY, INC

4406444

www.originslaboratory.com

page of

Client: How
Address: _____
Telephone Number: _____
Email Address: Justin@originslab.com
Project Manager: J. Scott
Project Name: Dacono LS1
Project Number: 241489
Samples Collected By: ST

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			
BH-1	6/14/24	8:30	3		X							X	BTEX	
-2		8:35												1
-4		8:40												2
-5		8:40												3
-6		9:15												4
-7		9:17												5
-8		9:13												6
-9		9:16												7
														8
														9
														10

Relinquished By: [Signature] Date: 6/14/24 Time: 1:59
Received By: [Signature] Date: 6/14/24 Time: 1:55
Temp Received: 5 Date Results Needed: _____
Turnaround Time: ☒ Standard ☐ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Origins Laboratory, Inc.

J. Bynon

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1406444 Client: AGW
Client Project ID: Dacono LS1

Checklist Completed by: JKO Shipped Via: HO
Date/time completed: 6/14/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NC</u>
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JKO

Date/Time Reviewed 6/17/24 1229

Origins Laboratory, Inc.

J. Bynon

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-1

6/14/2024 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406444-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-2

6/14/2024 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y406444-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-4

6/14/2024 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406444-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-5

6/14/2024 8:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406444-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-6

6/14/2024 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406444-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-7

6/14/2024 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406444-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	70-130			"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-8

6/14/2024 9:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406444-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-9

6/14/2024 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406444-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F1457	JSM	06/14/2024	06/19/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

Blank (B4F1457-BLK1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1457 - EPA 5030B (Water)

LCS (B4F1457-BS1)

Prepared: 06/14/2024 Analyzed: 06/19/2024

Benzene	53.1	1.00	ug/L	50.0		106	70-130			
Toluene	53.6	1.00	"	50.0		107	70-130			
Ethylbenzene	56.2	1.00	"	50.0		112	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
o-Xylene	50.7	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.9	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1457 - EPA 5030B (Water)										
Matrix Spike (B4F1457-MS1)		Source: Y406399-01			Prepared: 06/14/2024 Analyzed: 06/19/2024					
Benzene	62.4	1.00	ug/L	50.0	ND	125	70-130			
Toluene	64.3	1.00	"	50.0	ND	129	70-130			
Ethylbenzene	66.8	1.00	"	50.0	ND	134	70-130			QM-07
m,p-Xylene	133	2.00	"	100	ND	133	70-130			QM-07
o-Xylene	65.4	1.00	"	50.0	ND	131	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1457 - EPA 5030B (Water)										
Matrix Spike Dup (B4F1457-MSD1)	Source: Y406399-01				Prepared: 06/14/2024 Analyzed: 06/19/2024					
Benzene	59.1	1.00	ug/L	50.0	ND	118	70-130	5.35	20	
Toluene	59.2	1.00	"	50.0	ND	118	70-130	8.18	20	
Ethylbenzene	62.2	1.00	"	50.0	ND	124	70-130	7.24	20	
m,p-Xylene	124	2.00	"	100	ND	124	70-130	6.95	20	
o-Xylene	61.4	1.00	"	50.0	ND	123	70-130	6.24	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.5	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



June 26, 2024

A.G. Wassenaar

Spencer Scott

3211 South Zuni St

Englewood CO 80110

Project Name - Dacono LS1

Project Number - 241489

Attached are your analytical results for Dacono LS1 received by Origins Laboratory, Inc. June 14, 2024. This project is associated with Origins project number Y406438-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

3211 South Zuni St

Englewood CO 80110

Spencer Scott

Project Number: 241489

Project: Dacono LS1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-4-7	Y406438-01	Soil	June 12, 2024 10:55	06/14/2024 13:55
BH-5-6	Y406438-02	Soil	June 12, 2024 11:30	06/14/2024 13:55
BH-14-5	Y406438-03	Soil	June 13, 2024 14:45	06/14/2024 13:55
BH-14-7	Y406438-04	Soil	June 13, 2024 14:50	06/14/2024 13:55
BH-15-8	Y406438-05	Soil	June 13, 2024 16:35	06/14/2024 13:55
BH-16-8	Y406438-06	Soil	June 13, 2024 16:50	06/14/2024 13:55

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

ORIGINS
LABORATORY, INC

4406438

www.originslaboratory.com

page of

Client: MCN
Address: _____
Telephone Number: _____
Email Address: 8444@mcn.com
Project Manager: J. Scott
Project Name: Dacono LS1
Project Number: 241489
Samples Collected By: STC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX	DEP	GR0			
Bt-4-7	6/12/24	1055	1											X	X	X	
-5-6	6/12/24	1130															
-14-5	6/12/24	245															
-14-7		250															
-15-8		435															
-16-8		450															

Temp Received: 5

Date Results Needed

Relinquished By: [Signature]

Date: 6/14/24
Time: 155

Received By: [Signature]

Date: 6/14/24
Time: 1355

Turnaround Time:
Same Day ☐ 24 Hr ☐
48 Hr ☐ 72 Hr ☐

Standard ☒

Origins Laboratory, Inc.

[Signature]

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4406438 Client: ACW
Client Project ID: Dacono LS1

Checklist Completed by: EHJ Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/19/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) _____ °C
Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

ASG
Reviewed by (Project Manager)

6/17/24 1228
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-4-7

6/12/2024 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406438-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/18/2024	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130	"	"	"
Surrogate: Toluene-d8	95.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130	"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024	U
Surrogate: o-Terphenyl	80.7 %	50-150			"		"	"	

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-5-6

6/12/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406438-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/18/2024	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.665	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"
Surrogate: Toluene-d8	94.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024	U
Surrogate: o-Terphenyl	82.6 %	50-150			"	"	"		

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-14-5

6/13/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406438-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/18/2024	U
Ethylbenzene	0.186	0.00200	"	"	"	ZZZ	"	"	
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.00356	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	209	5.00	"	25	"	HK	"	06/19/2024	

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	06/18/2024
Surrogate: Toluene-d8	129 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	307	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024
Surrogate: o-Terphenyl	77.8 %	50-150			"	"	"	

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-14-7

6/13/2024 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406438-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/18/2024	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	1.37	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130			"	"	"
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024	U
Surrogate: o-Terphenyl	82.6 %	50-150			"	"	"		

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-15-8

6/13/2024 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406438-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/19/2024	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.00584	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	155	5.00	"	25	"	ZZZ	"	06/18/2024	

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	06/19/2024
Surrogate: Toluene-d8	91.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	123	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024
Surrogate: o-Terphenyl	87.7 %	50-150			"	"	"	

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-16-8

6/13/2024 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406438-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B4F1821	ZZZ	06/18/2024	06/19/2024	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	0.00378	0.00200	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	174	5.00	"	25	"	ZZZ	"	06/18/2024	

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	06/19/2024
Surrogate: Toluene-d8	93.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	854	25.0	mg/kg	1	B4F1716	ADM	06/17/2024	06/20/2024
Surrogate: o-Terphenyl	92.4 %	50-150			"	"	"	

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1716 - EPA 3550B

Blank (B4F1716-BLK1)

Prepared: 06/17/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	19		"	24.9		76.3	50-150			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1716 - EPA 3550B

LCS (B4F1716-BS1)

Prepared: 06/17/2024 Analyzed: 06/19/2024

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1716 - EPA 3550B

Matrix Spike (B4F1716-MS1)		Source: Y406409-01			Prepared: 06/17/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	808	50.0	mg/kg	1000	ND	80.8	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.6	50-150			

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1716 - EPA 3550B

Matrix Spike Dup (B4F1716-MSD1)		Source: Y406409-01			Prepared: 06/17/2024 Analyzed: 06/19/2024					
Diesel (C10-C28)	866	50.0	mg/kg	1000	ND	86.6	70-130	6.86	35	
Surrogate: o-Terphenyl	48		"	49.8		96.2	50-150			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1821 - EPA 5030 (soil)										
Blank (B4F1821-BLK1)					Prepared: 06/18/2024 Analyzed: 06/18/2024					
Benzene	ND	0.00200	mg/kg							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1821 - EPA 5030 (soil)										
LCS (B4F1821-BS1)					Prepared: 06/18/2024 Analyzed: 06/18/2024					
Benzene	0.0967	0.00200	mg/kg	0.100		96.7	70-130			
Ethylbenzene	0.0879	0.00200	"	0.100		87.9	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		88.9	70-130			
o-Xylene	0.0879	0.00200	"	0.100		87.9	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1821 - EPA 5030 (soil)

Matrix Spike (B4F1821-MS1)		Source: Y406438-01			Prepared: 06/18/2024 Analyzed: 06/18/2024					
Benzene	0.0951	0.00200	mg/kg	0.100	ND	95.1	70-130			
Ethylbenzene	0.0866	0.00200	"	0.100	ND	86.6	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.5	70-130			
o-Xylene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
Toluene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1821 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1821-MSD1)		Source: Y406438-01			Prepared: 06/18/2024 Analyzed: 06/18/2024					
Benzene	0.0943	0.00200	mg/kg	0.100	ND	94.3	70-130	0.824	20	
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	2.48	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130	2.24	20	
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130	2.54	20	
Toluene	0.0903	0.00200	"	0.100	ND	90.3	70-130	2.21	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



June 25, 2024

A.G. Wassenaar

Spencer Scott

3211 South Zuni St

Englewood CO 80110

Project Name - Dacono LS1

Project Number - 241489

Attached are your analytical results for Dacono LS1 received by Origins Laboratory, Inc. June 20, 2024. This project is associated with Origins project number Y406600-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

3211 South Zuni St

Englewood CO 80110

Spencer Scott

Project Number: 241489

Project: Dacono LS1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-17	Y406600-01	Water	June 17, 2024 16:30	06/20/2024 15:25
BH-18	Y406600-02	Water	June 17, 2024 16:40	06/20/2024 15:25
BH-19	Y406600-03	Water	June 17, 2024 16:50	06/20/2024 15:25

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

ORIGINS
LABORATORY, INC

4406600

www.originslaboratory.com

page of

Client: HCW
Address: _____
Telephone Number: _____
Email Address: Spencer.Scott@originslab.com
Project Manager: J. Scott
Project Name: Dacono LS1
Project Number: 241489
Samples Collected By: SD

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	
EH-17	6/17/24	4:30	3									
-18	6/17/24	4:40	1									
-19	6/17/24	4:50	1									
SV-1	6/17/24	12:41	1									
-2	6/17/24	1:35	1									
-3	6/17/24	2:00	1									

Temp Received: 7.8

Date Results Needed



Origins Laboratory, Inc.

J. Bynon

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4400600 Client: AGW
Client Project ID: Dacono LS1

Checklist Completed by: [Signature] Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/20/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☒ Other: air

Cooler Number/Temperature: °C °C °C (Describe) °C

Thermometer ID:

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PC
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 6/24/24 0836

Origins Laboratory, Inc.

[Signature]

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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-17

6/17/2024 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y406600-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F2148	JSM	06/21/2024	06/22/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	82.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-18

6/17/2024 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406600-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F2148	JSM	06/21/2024	06/22/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	80.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

BH-19

6/17/2024 4:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406600-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B4F2148	JSM	06/21/2024	06/22/2024	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	81.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F2148 - EPA 5030B (Water)										
Blank (B4F2148-BLK1)					Prepared: 06/21/2024 Analyzed: 06/22/2024					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	51		"	62.5		81.9	70-130			

Origins Laboratory, Inc.



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

A.G. Wassenaar
3211 South Zuni St
Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2148 - EPA 5030B (Water)

LCS (B4F2148-BS1)

Prepared: 06/21/2024 Analyzed: 06/22/2024

Benzene	48.2	1.00	ug/L	50.0		96.5	70-130			
Toluene	49.5	1.00	"	50.0		99.0	70-130			
Ethylbenzene	52.0	1.00	"	50.0		104	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	48.6	1.00	"	50.0		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Spencer Scott
Project Number: 241489
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2148 - EPA 5030B (Water)

Matrix Spike (B4F2148-MS1)		Source: Y406579-01			Prepared: 06/21/2024 Analyzed: 06/22/2024					
Benzene	44.1	1.00	ug/L	50.0	ND	88.3	70-130			
Toluene	46.2	1.00	"	50.0	ND	92.4	70-130			
Ethylbenzene	48.1	1.00	"	50.0	ND	96.3	70-130			
m,p-Xylene	98.6	2.00	"	100	ND	98.6	70-130			
o-Xylene	46.5	1.00	"	50.0	ND	93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



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Englewood CO 80110

Spencer Scott
Project Number: 241489
Project: Dacono LS1

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F2148 - EPA 5030B (Water)

Matrix Spike Dup (B4F2148-MSD1)		Source: Y406579-01			Prepared: 06/21/2024 Analyzed: 06/22/2024					
Benzene	44.6	1.00	ug/L	50.0	ND	89.2	70-130	1.08	20	
Toluene	46.7	1.00	"	50.0	ND	93.4	70-130	1.14	20	
Ethylbenzene	46.1	1.00	"	50.0	ND	92.3	70-130	4.22	20	
m,p-Xylene	99.8	2.00	"	100	ND	99.8	70-130	1.14	20	
o-Xylene	47.2	1.00	"	50.0	ND	94.4	70-130	1.52	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar

3211 South Zuni St

Englewood CO 80110

Spencer Scott

Project Number: 241489

Project: Dacono LS1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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6/25/2024

Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place

Denver CO 80211

Project Name:
Project #: Y406600
Workorder #: 2406507

Dear Ms. Jennifer Pellegrini

The following report includes the data for the above referenced project for sample(s) received on 6/22/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker
Project Manager

WORK ORDER #: 2406507

Work Order Summary

CLIENT: Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place
Denver, CO 80211

BILL TO: Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place
Denver, CO 80211

PHONE: 303-433-1322

P.O. #

FAX:

PROJECT # Y406600

DATE RECEIVED: 06/22/2024

CONTACT: Brian Whittaker

DATE COMPLETED: 06/25/2024

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV-1	Modified ASTM D-1946	Tedlar Bag	Tedlar Bag
02A	SV-2	Modified ASTM D-1946	Tedlar Bag	Tedlar Bag
03A	SV-3	Modified ASTM D-1946	Tedlar Bag	Tedlar Bag
04A	Lab Blank	Modified ASTM D-1946	NA	NA
05A	CCV	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Technical Director

DATE: 06/25/24

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017

Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000

LABORATORY NARRATIVE
Modified ASTM D-1946
Origins Laboratory
Workorder# 2406507

Three 1 Liter Tedlar Bag samples were received on June 22, 2024. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane in air using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

Sample IDs were reported from the sample tags per client email request on June 24, 2024.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-1

Lab ID#: 2406507-01A

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.00076	7.6

Client Sample ID: SV-2

Lab ID#: 2406507-02A

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.0018	18

Client Sample ID: SV-3

Lab ID#: 2406507-03A

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.00023	2.3



Air Toxics

Client Sample ID: SV-1

Lab ID#: 2406507-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062210	Date of Extraction: NA	Date of Collection: 6/20/24 12:45:00 PM
Dil. Factor:	1.00	Date of Analysis: 6/22/24 12:03 PM	

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.00076	7.6

Container Type: 1 Liter Tedlar Bag



Air Toxics

Client Sample ID: SV-2

Lab ID#: 2406507-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062211	Date of Extraction: NA	Date of Collection: 6/20/24 1:35:00 PM
Dil. Factor:	1.00	Date of Analysis: 6/22/24 12:35 PM	

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.0018	18

Container Type: 1 Liter Tedlar Bag



Air Toxics

Client Sample ID: SV-3

Lab ID#: 2406507-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062212	Date of Extraction: NA	Date of Collection: 6/20/24 2:00:00 PM
Dil. Factor:	1.00	Date of Analysis: 6/22/24 12:59 PM	

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	0.00023	2.3

Container Type: 1 Liter Tedlar Bag

Client Sample ID: Lab Blank

Lab ID#: 2406507-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062203	Date of Extraction: NA	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/22/24 08:58 AM	

Compound	Rpt. Limit (%)	Rpt. Limit (ppmv)	Amount (%)	Amount (ppmv)
Methane	0.00010	1.0	Not Detected	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: CCV

Lab ID#: 2406507-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062201	Date of Extraction: NA	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/22/24 08:11 AM	

Compound	%Recovery
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Methane	97
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Container Type: NA - Not Applicable

Client Sample ID: LCS
Lab ID#: 2406507-06A
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062202	Date of Extraction: NA	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/22/24 08:34 AM	

Compound	%Recovery	Method Limits
Methane	98	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2406507-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	11062218	Date of Extraction: NA	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 6/22/24 03:29 PM	

Compound	%Recovery	Method Limits
Methane	98	85-115

Container Type: NA - Not Applicable

Method : Modified ASTM D-1946 (Sh)-CH4 only

CAS Number	Compound	Rpt. Limit (%)
74-82-8	Methane	0.00010