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www.gza.com

March 22, 2022

JKN 3615 LLC, JKH 3621 LLC, JKH 3627 LLC, and JKH 3633 LLC
P.O. Box 11253
Milwaukee, Wisconsin 53211-0253

Attn: Mr. John and Ms. Katherine Herschede

Re: Sub-Slab and Indoor Air Test Results
3615, 3621, 3627, and 3633 North Humboldt Boulevard
Milwaukee, Wisconsin

Dear Mr. and Ms. Herschede:

On behalf of Clarios, GZA GeoEnvironmental, Inc. (GZA) thanks you for the access you have provided us for conducting sub-slab and indoor air testing in the four apartment buildings you own at 3615 through 3633 North Humboldt Boulevard. Clarios is conducting environmental activities on the property immediately west at 900 East Keefe Avenue in Milwaukee, Wisconsin ("Site"), with oversight being provided by the Wisconsin Department of Natural Resources (WDNR). With this letter, we are providing you the results of the February 28 to March 1, 2022 indoor and sub-slab air testing. As I discussed with your son during a March 9th telephone call, we will contact you to schedule the resampling of one of the four apartment buildings, as described below.

SUMMARY OF RESULTS

In summary and based on the laboratory results, the chemicals associated with the 900 East Keefe Avenue property are not adversely affecting indoor air quality in the apartments at the 3615, 3621, and 3633 Humboldt Boulevard addresses. One chemical, trichloroethene (TCE), was reported for the basement sample from 3627 Humboldt Boulevard at 8.7 micrograms per cubic meter ($\mu g/m^3$) a concentration greater than WDNR-allowable residential vapor action levels (VAL) of 2.1 $\mu g/m^3$. Because TCE was also reported for an outdoor air background sample at 4.2 $\mu g/m^3$, a concentration also greater than the residential VAL, GZA believes that the source of the TCE reported for the 3627 Humboldt Boulevard basement sample is likely from outside air.

SUB-SLAB AND INDOOR AIR SAMPLING METHODS

GZA collected one indoor air sample from the basement of each apartment building and two background outside air samples at upwind locations (west of the apartments) outside of the apartment buildings from February 28 to March 1, 2022. On March 1, 2022, GZA also collected air samples from beneath each of the four basement floor slabs (referred to as sub-slab air samples). The samples were collected from the two sub-slab sampling probes installed in the basements of each apartment building in July 2021. The sub-slab sampling probes are still in the basement floor of each apartment to allow for the collection of additional rounds of confirmatory samples, as warranted.

The indoor and outdoor background air samples were collected in 6-liter, evacuated SUMMA® canisters over a 24-hour sampling period. The sub-slab samples were collected in 1-liter, evacuated SUMMA® canisters over a 10- to 15-minute period. The samples were submitted under chain-of-custody to Eurofins/TestAmerica of South Burlington, Vermont and analyzed for six target chemicals (tetrachloroethene [PCE]; TCE; 1,1-dichloroethene [DCE]; cis-1,2-DCE; trans-1,2-DCE; and vinyl chloride) in accordance with United States Environmental Protection Agency (USEPA)

Method TO-15. The laboratory report for the sub-slab and indoor air samples is provided in **Attachment 1**. These results are also being shared with the WDNR and Wisconsin Department of Health Services (WDHS). Please provide the results to your tenants in the four apartment buildings.

SUB-SLAB AIR SAMPLE RESULTS

The sub-slab air sample results for the July and November 2021 and March 2022 sampling rounds are summarized on **Table 1**. The WDNR-allowable residential sub-slab screening levels are provided on the table for comparison. Chemicals were not detected in the March 2022 sub-slab samples collected from each of the apartment buildings.

INDOOR AIR SAMPLE RESULTS

The indoor air and background outside air sample results for the July and November 2021 and February-March 2022 sampling rounds are summarized on **Table 2**. The WDNR-allowable residential VALs are provided on the table for comparison. Of the six target chemicals included for analysis, PCE was reported for three of the four indoor air basement samples, and TCE was reported for one of the four indoor air basement samples and an outside air background sample.

PCE was reported at concentrations of 0.25 µg/m^3, 1.1 µg/m^3, and 4.8 µg/m^3 in the indoor air basement samples from the 3615, 3627, and 3633 Humboldt Boulevard apartment, respectively. The concentrations are much lower than the WDNR's PCE residential indoor air VAL of 42 µg/m^3. The WDNR residential indoor air VALs are set to provide a threshold concentration that is protective of human health over long-term exposure. GZA believes that the PCE reported for the sample from the basement of the home is likely related to an outside source or a source inside the home because PCE:

1. Was not detected in the sub-slab samples collected from beneath the apartments;
2. Is frequently detected as background in indoor air samples. USEPA reported that PCE was detected as background in 1,445 of 2,312 samples (62.5%) in a background study of indoor air from across the country[1]; and
3. Is either not detected or, when detected in groundwater samples collected from monitoring wells immediately upgradient of the apartments, is much lower than other volatile organic compound (VOC) constituents that were not detected in basement indoor air samples.

In any event, the reported PCE concentrations in the three samples of basement air are much lower than the WDNR's 42 µg/m^3 PCE residential indoor air VAL.

TCE was reported at a concentration of 8.7 µg/m^3 in the basement indoor air sample from 3627 Humboldt Boulevard and at 4.8 µg/m^3 in an outside background air sample. The wind direction during the 24-hour sampling period was generally westerly, but varied from southwest to northwest, and the outside background air canisters were due west of the apartments. Both of the TCE concentrations are greater than the WDNR's TCE residential indoor air VAL of 2.1 µg/m^3.

Based on the lack of TCE detection in the two sub-slab samples from 3627 Humboldt Boulevard and the detection of a similar TCE concentration in an outside air sample, GZA believes that the TCE reported for the 3627 Humboldt Boulevard basement air sample is likely from an outdoor air source.

CLOSING

Based on the test results, the chemicals associated with the 900 East Keefe Avenue property are not adversely affecting indoor air quality in the four apartments. However, based on the uncertainty of the source of TCE reported for the last of three sampling rounds of basement air at 3627 Humboldt Boulevard, GZA recommends resampling the basement air at

[1] June 2011, Office of Solid Waste and Emergency Response U.S. Environmental Protection Agency Background Indoor Air Concentrations of Volatile Organic Compounds in North American Residences (1990–2005): A Compilation of Statistics for Assessing Vapor Intrusion, EPA 530-R-10-001, Accessed January 2019 at: https://www.epa.gov/sites/production/files/2015-09/documents/oswer-vapor-intrusion-background-report-062411.pdf.

the apartment in the near future. Therefore, we will contact you soon to schedule a follow-up indoor air sampling round from the 3627 Humboldt Boulevard basement.

QUESTIONS

If you have questions, please call Bernie or John at (262) 424-2045 or (262) 424-2042, respectively, at GZA. You may also contact Ms. Alice Egan of the WDNR (414-263-8626 or alice.egan@wisconsin.gov), if you have any questions related to the investigation; or Mr. Curtis Hedman of the WDHS (608-266-6677 or curtis.Hedman@dhs.wisconsin.gov), if you have any health-related questions associated with our sampling.

Again, on behalf of Clarios, GZA thanks you for your cooperation.

Very truly yours,

GZA GeoEnvironmental, Inc.

Bernard G. Fenelon, P.G.
Senior Project Manager/Hydrogeologist

John C. Osborne, P.G.
Senior Principal/Hydrogeologist

J:\156600to156699\156645 Clarios Keefe Ave\00, 01, & 02 Supp SI and VI\Correspondence\VI Results Letters\2022 03\
2022 03 22 FINAL 156645.02 3615 to 3633 N Humboldt Blvd SS and IAQ Results Letter.docx

Attachment: Tables 1 and 2 - Sub-Slab and Indoor Air Results
Indoor Air and Sub-Slab Air Sample Laboratory Analytical Report

cc: Mr. Thomas Kettinger, Clarios
Ms. Alice Egan, Wisconsin Department of Natural Resources
Mr. Curtis Hedman, Wisconsin Department of Health Services

TABLES

TABLE 1
SUB-SLAB AIR ANALYTICAL RESULTS
3612 to 3622 North Humboldt Boulevard Properties
Milwaukee, Wisconsin

	Sample	Sample Date	cis-1,2-DCE	1,1-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
Property Address	**Residential Sub-Slab Vapor Risk Screening Level (µg/m^3)**		**NE**	**7,000**	**1,400**	**1,400**	**70**	**57**
3615 Humboldt Boulevard	East-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	East-SS	11/9/21	<0.99	<0.79	<1.2	<0.63	**4.0 J**	<1.7
	West-SS	11/9/21	<0.99	<0.79	<1.2	<0.63	**2.7 J**	<1.7
	East-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
3621 Humboldt Boulevard	East-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	East-SS	11/9/21	**1.1 J**	<0.79	**3.2 J**	<0.63	**4.1 J**	<1.7
	West-SS	11/9/21	<0.99	<0.79	<1.2	<0.63	**3.5 J**	<1.7
	East-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
3627 Humboldt Boulevard	East-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	East-SS	11/9/21	<0.99	**1.8 JB**	**5.3 JB**	**0.87 J**	**2.9 J**	**2.9 J**
	West-SS	11/9/21	<0.99	<0.79	<1.2	<0.63	**3.6 J**	<1.7
	East-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72

TABLE 1
SUB-SLAB AIR ANALYTICAL RESULTS
3612 to 3622 North Humboldt Boulevard Properties
Milwaukee, Wisconsin

	Sample	Sample Date	cis-1,2-DCE	1,1-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
Property Address	**Residential Sub-Slab Vapor Risk Screening Level (µg/m^3)**		**NE**	**7,000**	**1,400**	**1,400**	**70**	**57**
3633 Humboldt Boulevard	East-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	7/28/21	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	East-SS	11/9/21	<0.99	<0.79	<1.2	<0.63	<1.7	<1.7
	West-SS	11/9/21	**2.0 J**	<0.79	**3.2 JB**	<0.63	<1.7	<1.7
	East-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72
	West-SS	3/1/22	<1.3	<1.1	<1.8	<3.5	<1.3	<0.72

Notes:

1. Sample were collected from sub-slab vapor probes by GZA GeoEnvironmental, Inc. of Waukesha, Wisconsin and analyzed by Eurofins/TestAmerica of Knoxville, Tennessee or South Burlington, Vermont for the listed VOCs in accordance with USEPA Method TO-15.
2. Analytical results are provided in units of micrograms per cubic meter (µg/m^3).
3. The residential sub-slab vapor risk screening levels (VRSLs) were obtained from the WDNR's September 2021 "Quick Look-Up Table for VALs and VRSLs" at: https://dnr.wi.gov/topic/Brownfields/documents/vapor/vapor-quick.pdf.
4. Detections are provided in **bold font** and samples that exceed the VRSL, if any, are provided in **bold/underlined** font.
5. "NE" denotes that an action level has not been established for the constituent.
6. "**J-flag**" denotes the reported concentration is less than the reporting limit (RL) and equal to or greater than the method detection limit (MDL) and is an approximate value.
7. "**B-flag**" denotes the constituent was detected in a laboratory blank and sample.
8. Chemical constituent abbreviations are used as follows: cis-1,2-DCE denotes cis-1,2-dichloroethene; TCE denotes trichloroethene; trans-1,2-DCE denotes trans-1,2-dichloroethene; and PCE denotes tetrachloroethene.

TABLE 2
INDOOR AIR ANALYTICAL RESULTS
3615 - 3633 North Humboldt Boulevard Properties
Milwaukee, Wisconsin

	Sample	Sample Date	cis-1,2-DCE	1,1-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
Property Address	**Residential Indoor Air Vapor Action Level (µg/m^3)**		**NE**	**210**	**42**	**42**	**2.1**	**1.7**
3615 Humboldt Boulevard	Basement	7/27-28/21	<0.13	<0.11	**0.19 J**	<0.35	<0.13	<0.072
	3615/3621 Background	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	Basement	11/8-9/21	<0.099	<0.079	**0.27 JB**	<0.063	<0.17	<0.17
	3615/3621 Background	11/8-9/21	<0.099	<0.079	**0.30 JB**	<0.063	**0.25 J**	<0.17
	Basement	2/28 - 3/1/22	<0.13	<0.11	**0.26 J**	<0.35	<0.13	<0.072
	3615/3621 Background	2/28 - 3/1/22	<0.13	<0.11	<0.18	<0.35	**4.3**	<0.072
3621 Humboldt Boulevard	Basement	7/27-28/21	<0.22	<0.19	<0.30	<0.57	<0.21	<0.12
	3615/3621 Background	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	Basement	11/8-9/21	<0.099	<0.079	**0.25 JB**	<0.063	<0.17	<0.17
	3615/3621 Background	11/8-9/21	<0.099	<0.079	**0.30 JB**	<0.063	**0.25 J**	<0.17
	Basement	2/28 - 3/1/22	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	3615/3621 Background	2/28 - 3/1/22	<0.13	<0.11	<0.18	<0.35	**4.3**	<0.072
3627 Humboldt Boulevard	Basement	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	3627/3633 Background	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	Basement	11/8-9/21	<0.099	<0.079	**0.27 JB**	<0.063	<0.17	<0.17
	3627/3633 Background	11/8-9/21	<0.099	<0.079	**0.19 JB**	<0.063	<0.17	<0.17
	Basement	2/28 - 3/1/22	<0.13	<0.11	**1.1 J**	<0.35	**8.7**	<0.072
	3627/3633 Background	2/28 - 3/1/22	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072

TABLE 2
INDOOR AIR ANALYTICAL RESULTS
3615 - 3633 North Humboldt Boulevard Properties
Milwaukee, Wisconsin

	Sample	Sample Date	cis-1,2-DCE	1,1-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
Property Address	**Residential Indoor Air Vapor Action Level (µg/m³)**		**NE**	**210**	**42**	**42**	**2.1**	**1.7**
3633 Humboldt Boulevard	Basement	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	3627/3633 Background	7/27-28/21	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072
	Basement	11/8-9/21	<0.099	<0.079	**0.34 JB**	<0.063	<0.17	<0.17
	3627/3633 Background	11/8-9/21	<0.099	<0.079	**0.19 JB**	<0.063	<0.17	<0.17
	Basement	2/28 - 3/1/22	<0.13	<0.11	**4.8**	<0.35	<0.13	<0.072
	3627/3633 Background	2/28 - 3/1/22	<0.13	<0.11	<0.18	<0.35	<0.13	<0.072

Notes:
1. Twenty-four-hour integrated sample were collected in 6-liter SUMMA canisters by GZA GeoEnvironmental, Inc. of Waukesha, Wisconsin and analyzed by Eurofins/TestAmerica of Knoxville, Kentucky or South Burlington, Vermont for the listed VOCs in accordance with USEPA Method TO-15.
2. Analytical results are provided in units of micrograms per cubic meter (µg/m³).
3. The residential indoor air vapor action levels (VALs) were obtained from the WDNR "Quick Look-Up Table for VALs and VRSLs" accessed on April 5, 2021 at: https://dnr.wi.gov/topic/Brownfields/documents/vapor/vapor-quick.pdf.
4. Detections are provided in **bold font** and samples that exceed the VAL, if any, are provided in **bold/underlined** font.
5. "**NE**" denotes that an action level has not been established for the constituent.
6. "**J-flag**" denotes the reported concentration is less than the reporting limit (RL) and equal to or greater than the method detection limit (MDL) and is an approximate value.
7. "**B-flag**" denotes the constituent was detected in a laboratory blank and sample.
8. Chemical constituent abbreviations are used as follows: cis-1,2-DCE denotes cis-1,2-dichloroethene; TCE denotes trichloroethene; trans-1,2-DCE denotes trans-1,2-dichloroethene; and PCE denotes tetrachloroethene.

ATTACHMENT 1

Indoor and Sub-Slab Air Sample Analytical Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213091-1
Client Project/Site: 900 E KEEFE AVE

For:
GZA GeoEnvironmental, Inc.
17975 W Sarah Lane, Suite 100
Brookfield, Wisconsin 53045

Attn: Bernard Fenelon

Authorized for release by:
3/8/2022 4:13:28 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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

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

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

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Job ID: 500-213091-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213091-1

Comments
No additional comments.

Receipt
The samples were received on 3/2/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

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

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.70		0.20	0.027	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.8		1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 3627 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.16	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.6		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.1	J	1.4	0.18	ug/m3	1		TO-15	Total/NA
Trichloroethene	8.7		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: 3621 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-3

No Detections.

Client Sample ID: 3615 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.039	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.26	J	1.4	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 3627/3633 HUMBOLDT BACKGROUND IA — Lab Sample ID: 500-213091-5

No Detections.

Client Sample ID: 3615/3621 HUMBOLDT BACKGROUND IA — Lab Sample ID: 500-213091-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.80		0.20	0.024	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.3		1.1	0.13	ug/m3	1		TO-15	Total/NA

Client Sample ID: 3633 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-7

No Detections.

Client Sample ID: 3633 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-8

No Detections.

Client Sample ID: 3627 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-9

No Detections.

Client Sample ID: 3627 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-10

No Detections.

Client Sample ID: 3621 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-11

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3621 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-12

No Detections.

Client Sample ID: 3615 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-13

No Detections.

Client Sample ID: 3615 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-14

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-213091-1	3633 HUMBOLDT BASEMENT IA	Air	03/01/22 09:00	03/02/22 10:25	Air Canister (6-Liter) #5065
500-213091-2	3627 HUMBOLDT BASEMENT IA	Air	03/01/22 09:12	03/02/22 10:25	Air Canister (6-Liter) #4100
500-213091-3	3621 HUMBOLDT BASEMENT IA	Air	03/01/22 09:26	03/02/22 10:25	Air Canister (6-Liter) #6267
500-213091-4	3615 HUMBOLDT BASEMENT IA	Air	03/01/22 09:38	03/02/22 10:25	Air Canister (6-Liter) #4298
500-213091-5	3627/3633 HUMBOLDT BACKGROUND IA	Air	03/01/22 09:46	03/02/22 10:25	Air Canister (6-Liter) #3513
500-213091-6	3615/3621 HUMBOLDT BACKGROUND IA	Air	03/01/22 09:49	03/02/22 10:25	Air Canister (6-Liter) #5403
500-213091-7	3633 HUMBOLDT EAST SS	Air	03/01/22 11:29	03/02/22 10:25	Air Canister (1-Liter) #34000234
500-213091-8	3633 HUMBOLDT WEST SS	Air	03/01/22 10:40	03/02/22 10:25	Air Canister (1-Liter) #34000237
500-213091-9	3627 HUMBOLDT EAST SS	Air	03/01/22 11:28	03/02/22 10:25	Air Canister (1-Liter) #6454
500-213091-10	3627 HUMBOLDT WEST SS	Air	03/01/22 11:35	03/02/22 10:25	Air Canister (1-Liter) #4954
500-213091-11	3621 HUMBOLDT EAST SS	Air	03/01/22 12:16	03/02/22 10:25	Air Canister (1-Liter) #4958
500-213091-12	3621 HUMBOLDT WEST SS	Air	03/01/22 12:31	03/02/22 10:25	Air Canister (1-Liter) #6482
500-213091-13	3615 HUMBOLDT EAST SS	Air	03/01/22 13:10	03/02/22 10:25	Air Canister (1-Liter) #6330
500-213091-14	3615 HUMBOLDT WEST SS	Air	03/01/22 13:26	03/02/22 10:25	Air Canister (1-Liter) #6430

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT BASEMENT IA

Lab Sample ID: 500-213091-1

Date Collected: 03/01/22 09:00
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 13:39	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 13:39	1
Tetrachloroethene	**0.70**		0.20	0.027	ppb v/v			03/04/22 13:39	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 13:39	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/04/22 13:39	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 13:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 13:39	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 13:39	1
Tetrachloroethene	**4.8**		1.4	0.18	ug/m3			03/04/22 13:39	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 13:39	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/04/22 13:39	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 13:39	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3627 HUMBOLDT BASEMENT IA

Lab Sample ID: 500-213091-2

Date Collected: 03/01/22 09:12
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 14:32	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 14:32	1
Tetrachloroethene	**0.16**	**J**	0.20	0.027	ppb v/v			03/04/22 14:32	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 14:32	1
Trichloroethene	**1.6**		0.20	0.024	ppb v/v			03/04/22 14:32	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 14:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 14:32	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 14:32	1
Tetrachloroethene	**1.1**	**J**	1.4	0.18	ug/m3			03/04/22 14:32	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 14:32	1
Trichloroethene	**8.7**		1.1	0.13	ug/m3			03/04/22 14:32	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 14:32	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3621 HUMBOLDT BASEMENT IA

Lab Sample ID: 500-213091-3

Date Collected: 03/01/22 09:26
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 18:02	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 18:02	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/04/22 18:02	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 18:02	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/04/22 18:02	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 18:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 18:02	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 18:02	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/04/22 18:02	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 18:02	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/04/22 18:02	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 18:02	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3615 HUMBOLDT BASEMENT IA

Lab Sample ID: 500-213091-4

Date Collected: 03/01/22 09:38
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 18:54	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 18:54	1
Tetrachloroethene	**0.039**	**J**	0.20	0.027	ppb v/v			03/04/22 18:54	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 18:54	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/04/22 18:54	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 18:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 18:54	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 18:54	1
Tetrachloroethene	**0.26**	**J**	1.4	0.18	ug/m3			03/04/22 18:54	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 18:54	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/04/22 18:54	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 18:54	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3627/3633 HUMBOLDT BACKGROUND IA

Lab Sample ID: 500-213091-5

Date Collected: 03/01/22 09:46
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/07/22 18:34	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/07/22 18:34	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/07/22 18:34	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/07/22 18:34	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/07/22 18:34	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/07/22 18:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/07/22 18:34	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/07/22 18:34	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/07/22 18:34	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/07/22 18:34	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/07/22 18:34	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/07/22 18:34	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3615/3621 HUMBOLDT BACKGROUND IA

Lab Sample ID: 500-213091-6

Date Collected: 03/01/22 09:49
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/07/22 19:27	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/07/22 19:27	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/07/22 19:27	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/07/22 19:27	1
Trichloroethene	**0.80**		0.20	0.024	ppb v/v			03/07/22 19:27	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/07/22 19:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/07/22 19:27	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/07/22 19:27	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/07/22 19:27	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/07/22 19:27	1
Trichloroethene	**4.3**		1.1	0.13	ug/m3			03/07/22 19:27	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/07/22 19:27	1

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT EAST SS

Lab Sample ID: 500-213091-7

Date Collected: 03/01/22 11:29
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/07/22 20:20	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/07/22 20:20	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/07/22 20:20	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/07/22 20:20	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/07/22 20:20	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/07/22 20:20	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/07/22 20:20	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/07/22 20:20	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/07/22 20:20	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/07/22 20:20	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/07/22 20:20	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/07/22 20:20	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT WEST SS

Lab Sample ID: 500-213091-8

Date Collected: 03/01/22 10:40
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 21:31	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 21:31	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 21:31	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 21:31	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 21:31	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 21:31	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 21:31	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 21:31	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 21:31	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 21:31	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 21:31	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 21:31	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3627 HUMBOLDT EAST SS

Lab Sample ID: 500-213091-9

Date Collected: 03/01/22 11:28
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 17:19	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 17:19	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 17:19	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 17:19	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 17:19	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 17:19	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 17:19	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 17:19	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 17:19	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 17:19	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 17:19	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 17:19	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3627 HUMBOLDT WEST SS

Lab Sample ID: 500-213091-10

Date Collected: 03/01/22 11:35
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 18:13	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 18:13	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 18:13	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 18:13	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 18:13	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 18:13	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 18:13	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 18:13	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 18:13	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 18:13	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 18:13	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 18:13	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3621 HUMBOLDT EAST SS

Lab Sample ID: 500-213091-11

Date Collected: 03/01/22 12:16
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 19:07	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 19:07	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 19:07	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 19:07	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 19:07	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 19:07	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 19:07	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 19:07	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 19:07	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 19:07	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 19:07	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 19:07	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3621 HUMBOLDT WEST SS

Lab Sample ID: 500-213091-12

Date Collected: 03/01/22 12:31
Matrix: Air
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 21:48	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 21:48	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 21:48	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 21:48	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 21:48	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 21:48	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 21:48	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 21:48	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 21:48	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 21:48	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 21:48	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 21:48	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3615 HUMBOLDT EAST SS

Lab Sample ID: 500-213091-13

Date Collected: 03/01/22 13:10
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 22:42	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 22:42	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 22:42	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 22:42	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 22:42	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 22:42	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 22:42	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 22:42	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 22:42	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 22:42	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 22:42	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 22:42	10

Client Sample Results

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3615 HUMBOLDT WEST SS

Lab Sample ID: 500-213091-14

Date Collected: 03/01/22 13:26
Date Received: 03/02/22 10:25
Sample Container: Summa Canister 1L

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.33		2.0	0.33	ppb v/v			03/04/22 23:36	10
1,1-Dichloroethene	<0.29		2.0	0.29	ppb v/v			03/04/22 23:36	10
Tetrachloroethene	<0.27		2.0	0.27	ppb v/v			03/04/22 23:36	10
trans-1,2-Dichloroethene	<0.88		2.0	0.88	ppb v/v			03/04/22 23:36	10
Trichloroethene	<0.24		2.0	0.24	ppb v/v			03/04/22 23:36	10
Vinyl chloride	<0.28		2.0	0.28	ppb v/v			03/04/22 23:36	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		7.9	1.3	ug/m3			03/04/22 23:36	10
1,1-Dichloroethene	<1.1		7.9	1.1	ug/m3			03/04/22 23:36	10
Tetrachloroethene	<1.8		14	1.8	ug/m3			03/04/22 23:36	10
trans-1,2-Dichloroethene	<3.5		7.9	3.5	ug/m3			03/04/22 23:36	10
Trichloroethene	<1.3		11	1.3	ug/m3			03/04/22 23:36	10
Vinyl chloride	<0.72		5.1	0.72	ug/m3			03/04/22 23:36	10

Definitions/Glossary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Qualifiers

Air - GC/MS VOA

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

Glossary

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

QC Association Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Air - GC/MS VOA

Analysis Batch: 177312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213091-1	3633 HUMBOLDT BASEMENT IA	Total/NA	Air	TO-15	
500-213091-2	3627 HUMBOLDT BASEMENT IA	Total/NA	Air	TO-15	
500-213091-3	3621 HUMBOLDT BASEMENT IA	Total/NA	Air	TO-15	
500-213091-4	3615 HUMBOLDT BASEMENT IA	Total/NA	Air	TO-15	
500-213091-8	3633 HUMBOLDT WEST SS	Total/NA	Air	TO-15	
MB 200-177312/6	Method Blank	Total/NA	Air	TO-15	
LCS 200-177312/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 177324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213091-9	3627 HUMBOLDT EAST SS	Total/NA	Air	TO-15	
500-213091-10	3627 HUMBOLDT WEST SS	Total/NA	Air	TO-15	
500-213091-11	3621 HUMBOLDT EAST SS	Total/NA	Air	TO-15	
500-213091-12	3621 HUMBOLDT WEST SS	Total/NA	Air	TO-15	
500-213091-13	3615 HUMBOLDT EAST SS	Total/NA	Air	TO-15	
500-213091-14	3615 HUMBOLDT WEST SS	Total/NA	Air	TO-15	
MB 200-177324/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-177324/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 177355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213091-5	3627/3633 HUMBOLDT BACKGROUND IA	Total/NA	Air	TO-15	
500-213091-6	3615/3621 HUMBOLDT BACKGROUND IA	Total/NA	Air	TO-15	
500-213091-7	3633 HUMBOLDT EAST SS	Total/NA	Air	TO-15	
MB 200-177355/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-177355/4	Lab Control Sample	Total/NA	Air	TO-15	

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-177312/6
Matrix: Air
Analysis Batch: 177312

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 11:55	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 11:55	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/04/22 11:55	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 11:55	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/04/22 11:55	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 11:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 11:55	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 11:55	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/04/22 11:55	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 11:55	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/04/22 11:55	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 11:55	1

Lab Sample ID: LCS 200-177312/3
Matrix: Air
Analysis Batch: 177312

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	8.77		ppb v/v		88	72 - 121
1,1-Dichloroethene	10.0	10.6		ppb v/v		106	68 - 120
Tetrachloroethene	10.0	8.85		ppb v/v		88	70 - 125
trans-1,2-Dichloroethene	10.0	10.4		ppb v/v		104	69 - 137
Trichloroethene	10.0	9.15		ppb v/v		92	73 - 122
Vinyl chloride	10.0	11.0		ppb v/v		110	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	40	34.8		ug/m3		88	72 - 121
1,1-Dichloroethene	40	41.8		ug/m3		106	68 - 120
Tetrachloroethene	68	60.0		ug/m3		88	70 - 125
trans-1,2-Dichloroethene	40	41.1		ug/m3		104	69 - 137
Trichloroethene	54	49.2		ug/m3		92	73 - 122
Vinyl chloride	26	28.1		ug/m3		110	61 - 135

Lab Sample ID: MB 200-177324/4
Matrix: Air
Analysis Batch: 177324

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/04/22 13:43	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/04/22 13:43	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/04/22 13:43	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/04/22 13:43	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/04/22 13:43	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/04/22 13:43	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/04/22 13:43	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-177324/4
Matrix: Air
Analysis Batch: 177324

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/04/22 13:43	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/04/22 13:43	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/04/22 13:43	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/04/22 13:43	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/04/22 13:43	1

Lab Sample ID: LCS 200-177324/3
Matrix: Air
Analysis Batch: 177324

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	9.36		ppb v/v		94	72 - 121
1,1-Dichloroethene	10.0	9.23		ppb v/v		92	68 - 120
Tetrachloroethene	10.0	8.14		ppb v/v		81	70 - 125
trans-1,2-Dichloroethene	10.0	10.7		ppb v/v		107	69 - 137
Trichloroethene	10.0	9.26		ppb v/v		93	73 - 122
Vinyl chloride	10.0	10.6		ppb v/v		106	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	40	37.1		ug/m3		94	72 - 121
1,1-Dichloroethene	40	36.6		ug/m3		92	68 - 120
Tetrachloroethene	68	55.2		ug/m3		81	70 - 125
trans-1,2-Dichloroethene	40	42.6		ug/m3		107	69 - 137
Trichloroethene	54	49.8		ug/m3		93	73 - 122
Vinyl chloride	26	27.0		ug/m3		106	61 - 135

Lab Sample ID: MB 200-177355/5
Matrix: Air
Analysis Batch: 177355

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			03/07/22 10:39	1
1,1-Dichloroethene	<0.029		0.20	0.029	ppb v/v			03/07/22 10:39	1
Tetrachloroethene	<0.027		0.20	0.027	ppb v/v			03/07/22 10:39	1
trans-1,2-Dichloroethene	<0.088		0.20	0.088	ppb v/v			03/07/22 10:39	1
Trichloroethene	<0.024		0.20	0.024	ppb v/v			03/07/22 10:39	1
Vinyl chloride	<0.028		0.20	0.028	ppb v/v			03/07/22 10:39	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			03/07/22 10:39	1
1,1-Dichloroethene	<0.11		0.79	0.11	ug/m3			03/07/22 10:39	1
Tetrachloroethene	<0.18		1.4	0.18	ug/m3			03/07/22 10:39	1
trans-1,2-Dichloroethene	<0.35		0.79	0.35	ug/m3			03/07/22 10:39	1
Trichloroethene	<0.13		1.1	0.13	ug/m3			03/07/22 10:39	1
Vinyl chloride	<0.072		0.51	0.072	ug/m3			03/07/22 10:39	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-177355/4
Matrix: Air
Analysis Batch: 177355

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	10.1		ppb v/v		101	72 - 121
1,1-Dichloroethene	10.0	9.38		ppb v/v		94	68 - 120
Tetrachloroethene	10.0	11.1		ppb v/v		111	70 - 125
trans-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	69 - 137
Trichloroethene	10.0	8.93		ppb v/v		89	73 - 122
Vinyl chloride	10.0	9.17		ppb v/v		92	61 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	40	40.1		ug/m3		101	72 - 121
1,1-Dichloroethene	40	37.2		ug/m3		94	68 - 120
Tetrachloroethene	68	75.4		ug/m3		111	70 - 125
trans-1,2-Dichloroethene	40	39.8		ug/m3		100	69 - 137
Trichloroethene	54	48.0		ug/m3		89	73 - 122
Vinyl chloride	26	23.4		ug/m3		92	61 - 135

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-1

Date Collected: 03/01/22 09:00 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177312	03/04/22 13:39	A1B	TAL BUR

Client Sample ID: 3627 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-2

Date Collected: 03/01/22 09:12 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177312	03/04/22 14:32	A1B	TAL BUR

Client Sample ID: 3621 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-3

Date Collected: 03/01/22 09:26 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177312	03/04/22 18:02	A1B	TAL BUR

Client Sample ID: 3615 HUMBOLDT BASEMENT IA — Lab Sample ID: 500-213091-4

Date Collected: 03/01/22 09:38 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177312	03/04/22 18:54	A1B	TAL BUR

Client Sample ID: 3627/3633 HUMBOLDT BACKGROUND IA — Lab Sample ID: 500-213091-5

Date Collected: 03/01/22 09:46 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177355	03/07/22 18:34	TPB	TAL BUR

Client Sample ID: 3615/3621 HUMBOLDT BACKGROUND IA — Lab Sample ID: 500-213091-6

Date Collected: 03/01/22 09:49 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	177355	03/07/22 19:27	TPB	TAL BUR

Client Sample ID: 3633 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-7

Date Collected: 03/01/22 11:29 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177355	03/07/22 20:20	TPB	TAL BUR

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Client Sample ID: 3633 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-8

Date Collected: 03/01/22 10:40 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177312	03/04/22 21:31	A1B	TAL BUR

Client Sample ID: 3627 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-9

Date Collected: 03/01/22 11:28 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 17:19	K1P	TAL BUR

Client Sample ID: 3627 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-10

Date Collected: 03/01/22 11:35 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 18:13	K1P	TAL BUR

Client Sample ID: 3621 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-11

Date Collected: 03/01/22 12:16 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 19:07	K1P	TAL BUR

Client Sample ID: 3621 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-12

Date Collected: 03/01/22 12:31 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 21:48	K1P	TAL BUR

Client Sample ID: 3615 HUMBOLDT EAST SS — Lab Sample ID: 500-213091-13

Date Collected: 03/01/22 13:10 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 22:42	K1P	TAL BUR

Client Sample ID: 3615 HUMBOLDT WEST SS — Lab Sample ID: 500-213091-14

Date Collected: 03/01/22 13:26 — **Matrix: Air**
Date Received: 03/02/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	177324	03/04/22 23:36	K1P	TAL BUR

Laboratory References:

TAL BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 900 E KEEFE AVE

Job ID: 500-213091-1

Laboratory: Eurofins Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-22
Minnesota	NELAP	050-999-436	12-31-22
New Hampshire	NELAP	2006	12-18-22
New Jersey	NELAP	VT972	06-30-22
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-23
Virginia	NELAP	460209	12-14-22
Wisconsin	State	399133350	08-31-22

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

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660 1990 fax 802 660 1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** BERNARD [illegible]	**Samples Collected By:** C. Ainsworth	COC No
Company Name: GZA GEOENVIRONMENTAL INC	**Phone:**		1 of 2 COCs
Address 17915 West Bluemound Rd Ste 100	**Email:**		TALS Project #:
City/State/Zip Brookfield, WI 53045			**For Lab Use Only:**
Phone: 262-754-2560	**Site Contact:**		Client:
FAX:	**Tel/Fax**		pling
Project Name 900 E Keefe Ave	**Analysis Turnaround Time**		
Site/Location Milwaukee, WI	Standard (Specific): Normal		G No.
P O #	Rush (Specifiy):		e below for Add'l Items)

500-213091 Chain of Custody

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25	ASTM	EPA 1	Other	Samp	Indoor	Sub-SI	Soil Ga	Soil Va	Landfil	Other (I	Sample Specific Notes:
3633 Humboldt Basement IA	2/28/22	856	3/1/22	900	-29	-5	8805	5065	x								x						
3627 Humboldt Basement IA		901		912	-22.5	+1	3950	4100	x								x						
3621 Humboldt Basement IA		905		926	-30	-5	3999	6267	x								x						
3615 Humboldt Basement IA		910		938	-30	-4	5199	4298	x								x						
3627/3633 Humboldt Background IA		916		946	-25	-10	4489	3513	x								x						
3615/3621 Humboldt Background IA		921		949	-20	+1.5	4205	5403	x								x						
3633 Humboldt East SS	3/1/22	1017		1029	-29	-3	4058	34000234	x									x					
3633 Humboldt West SS		1032		1040	-25	0	5175	34000237	x									x					
3627 Humboldt East SS		1110		1128	-22.5	0	3777	6454	x									x					
3627 Humboldt West SS		1125		1135	-30	-1	4528	4954	x									x					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:
PLEASE ANALYZE: PCE; TCE; 1,1 DCE; Cis AND TRANS 1,2 DCE; VC

Samples Shipped by:	**Date / Time:** 3/1/22 1500	**Samples Received by:** PER FED EX
Samples Relinquished by:	**Date / Time:** 3/2/22 10:25	**Received by:** John P. Beum ETA Burl
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660 1990 fax 802.660 1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

eurofins | Environment Testing America

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** BERNARD KENEBUN	**Samples Collected By:** C. AINSWORTH	COC No:
Company Name: GRA GEOENVIRONMENTAL INC.	**Phone:**		2 of 2 COCs
Address: 17975 W. SARAH LANE STE 100	**Email:**		TALS Project #:
City/State/Zip BROOKFIELD, WI 53045			**For Lab Use Only:**
Phone. 262-754-2560	**Site Contact:**		Walk-in Client:
FAX.	**Tel/Fax**		Lab Sampling.
Project Name. 900 E KEEFE AVE	**Analysis Turnaround Time**		
Site/Location MILWAUKEE, WI	Standard (Specific): NORMAL		Job / SDG No.
P O #	Rush (Specifiy):		(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
3621 HUMBOLDT EAST SS	3/1/22	1205	3/1/22	1216	-29	-1	3961	4958	X									X					
3621 HUMBOLDT WEST SS		1219		1231	-12	+6.5	4757	6482	X									X					
3615 HUMBOLDT EAST SS		1300		1310	-29	-25	4734	6330	X									X					
3615 HUMBOLDT WEST SS		1315		1326	-30	-1	5239	6430	X									X					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments: PLEASE ANALYZE: PCE; TCE; 1,1 DCE; CIS AND TRANS 1,2 DCE; VC

Samples Shipped by:	**Date / Time:** 3/1/22 1500	**Samples Received by:** PER FED EX
Samples Relinquished by:	**Date / Time:** 3/2/22 10:25	**Received by:** John P. Brown ETA BUFI
Relinquished by:	**Date / Time:**	**Received by:**
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**

Form No. CA-C-WI-003, Rev. 2.28, dated 1/8/2021

eurofins | Environment Testing TestAmerica

Part # 159469-434 MTW EXP 12/22

ORIGIN ID:BTVA (262) 754-2560
BERNARD FENELON
GZA GEOENVIRONMENTAL, INC.
17975 W SARAH LANE, SUITE 100

BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 18FEB22
ACTWGT: 10.00 LB MAN
CAD: 000890364/CAFE3510

TO SAMPLE MANAGEMENT
EUROFINS TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1058
REF: S500-98594

RMA:

FedEx Express

FedEx
TRK# 0221 5592 7076 5769

WED - 02 MAR 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

Part # 166297-435 RRDB EXP 01/23

#4164B14 03/01 56DJ3/90BB/FE4A

eurofins | Environment Testing TestAmerica

Part # 159469-434 MTW EXP 12/22

ORIGIN ID:BTVA (262) 754-2560
BERNARD FENELON
GZA GEOENVIRONMENTAL, INC.
17975 W SARAH LANE, SUITE 100

BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 18FEB22
ACTWGT: 10.00 LB MAN
CAD: 000890364/CAFE3510

TO SAMPLE MANAGEMENT
EUROFINS TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1058
REF: S500-98594

RMA:

FedEx Express

FedEx
TRK# 0221 5592 7076 5770

WED - 02 MAR 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV

Part # 166297-435 RRDB EXP 01/23

#4164B14 03/01 56DJ3/90BB/FE4A

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-213091-1

Login Number: 213091
List Number: 1
Creator: Khudaier, Zahraa

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	729022, 729023
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.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
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.	N/A	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-213091-1

Login Number: 213091
List Number: 2
Creator: Khudaier, Zahraa

List Source: Eurofins Burlington
List Creation: 03/03/22 09:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
500-213091	03/03/22	11:42	29.8	20	G16	ZK

Sampling Information and Return Equipment Check	Yes	N o	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		N o	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		N o	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
500-213091-A-1	5065	-5.8	N	8805	89/80	Y	4717-49594	
500-213091-A-2	4100	-3.4	N	3950	89/80	Y	4717-49594	
500-213091-A-3	6267	-5.1	N	3999	89/80	Y	4717-49594	
500-213091-A-4	4298	-2.3	N	5199	89/75	Y	4717-49594	
500-213091-A-5	3513	-3.2	N	4489	89/80	Y	4717-49594	
500-213091-A-6	5403	0.0	N	4205	89/80	Y	4717-49594	100 ML
500-213091-A-7	34000234	-3.7	N	4058	89/73	Y	4843-49574	
500-213091-A-8	34000237	-4.6	N	5175	89/73	Y	4843-49574	
500-213091-A-9	6454	-4.6	N	3777	89/79	Y	8439-48652	
500-213091-A-10	4954	0.0	N	4528	89/73	Y	5909-48719	100 ML
500-213091-A-11	4958	0.0	N	3961	89/73	Y	4843-49574	100 ML
500-213091-A-12	6482	-2.3	N	4757	89/73	Y	4843-49574	
500-213091-A-13	6330	-1.9	N	4734	89/73	Y	6422-49302	
500-213091-A-14	6430	0.0	N	5239	89/73	Y	4843-49574	100 ML

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Bernard Fenelon

From: Desjardins, Bill <William.DesJardins@Eurofinset.com>
Sent: Wednesday, March 9, 2022 9:11 AM
To: Fredrick, Sandie
Subject: RE: Client report question 500-213080-1 JCI Goshen, IN Project - AIR

Good Morning Sandie,

The client is correct. The Ys and Ns have been reversed on the form. If the client needs this corrected, I can hand correct the form and rescan it. If the correction needs to be in the report we will need a revision made.

BILL DESJARDINS
Specialty Analysis Supervisor

Eurofins Environmental Testing America Burlington
530 Community Drive, Suite 11
South Burlington, VT 05403
Tel 802 660 1990

E-mail:bill.desjardins@eurofinset.com
www.EurofinsUS.com

From: Fredrick, Sandie <Sandra.Fredrick@Eurofinset.com>
Sent: Wednesday, March 9, 2022 9:56 AM
To: Desjardins, Bill <William.DesJardins@Eurofinset.com>
Subject: Client report question 500-213080-1 JCI Goshen, IN Project - AIR

Hi Bill,
Can you please see the last page of the report… Should the N be a Y and the others be a N for Anomaly?
I see where his confusion comes in as I would expect the outlier to be a “Y” not a “N”

Thoughts
Thanks
Sandie

We are thankful for your business and hope that you have a wonderful day!

Sandie Fredrick
Project Manager

Eurofins Environment Testing America - Chicago
2417 Bond Street

University Park, IL 60484 USA

Phone: 920-261-1660
E-mail: sandra.fredrick@eurofinset.com

www.EurofinsUS.com | Facebook | LinkedIn

From: Bernard Fenelon <bernard.fenelon@gza.com>
Sent: Tuesday, March 8, 2022 1:17 PM
To: Fredrick, Sandie <Sandra.Fredrick@Eurofinset.com>
Cc: Elizabeth Stapleton <Elizabeth.Stapleton@gza.com>
Subject: RE: [EXTERNAL] Eurofins Environment Testing North Central, LLC report and EDD files from 500-213080-1 JCI Goshen, IN Project - AIR

EXTERNAL EMAIL*

Is the Anomaly entry on pdf Page 25 of this report reversed (Y means N and N means Y)?

Bernard G. Fenelon
Senior Consultant
GZA | 17975 West Sarah Lane, Suite 100 | Brookfield, WI 53045
o: 262.754.2567 | c: 262.424.2045 | bernard.fenelon@gza.com | www.gza.com | LinkedIn

GEOTECHNICAL | ENVIRONMENTAL | ECOLOGICAL | WATER | CONSTRUCTION MANAGEMENT

From: Sandie Fredrick <sandra.fredrick@eurofinset.com>
Sent: Tuesday, March 8, 2022 9:50 AM
To: Bernard Fenelon <bernard.fenelon@gza.com>; Elizabeth Stapleton <Elizabeth.Stapleton@gza.com>
Subject: [EXTERNAL] Eurofins Environment Testing North Central, LLC report and EDD files from 500-213080-1 JCI Goshen, IN Project - AIR

Hello Bernie/Ellie,

Attached please find the report and EDD files for job 500-213080-1; JCI Goshen, IN Project - AIR

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

Thank you.

Sandie Fredrick
Project Manager

Eurofins Chicago
Phone: 920-261-1660

E-mail: sandra.fredrick@eurofinset.com
www.eurofinsus.com/env

Reference: [500-643155]
Attachments: 2

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