

From: [Anthony J. Reitano](#)
To: [Brown, C David](#); [Costello, Andrea](#); [Sabetta, Matthew](#); [Patel, Ragesh](#); [Mcclennen, Bonnie](#); [McCarthy, Christine](#); [Suarez Rivera, Glorines](#)
Cc: ["Brunt, Larry"](#); [Eric Carlson](#)
Subject: FW: DRAFT response - RE: [External] FW: Alliance 51st Street PADEP Split Sample Results
Date: Friday, October 18, 2024 2:47:40 PM
Attachments: [image001.png](#)
[Before and After cleanup photos of the three locations.pdf](#)
[Table X 2024_09 Trail Sampling Results.pdf](#)
[2024_09 Trail Sample Locations.pdf](#)
[410-188472-1 Lab Report Alliance 51st St.pdf](#)

David et al.:

I hope all is well. Sorry for the delay here. This e-mail provides the data from the post cleanup sampling as well as background samples taken from both sides of the trail in follow-up to the e-mail below.

Attached is a pdf table with all total chromium and hexavalent chromium sampling results from this sampling event. Also attached is the lab report. Just a reminder we used Eurofins in Lancaster, PA for laboratory analysis to eliminate variability with different labs. A summary of the data is provided below.

For the post cleanup results, Sample S-3, which is at the end of the swale from the Alliance property, is non-detect for hexavalent chromium. Photo S-3 shows that location after the cleanup and sampling. The other three locations, S-5/S-6 and S-8A all had hexavalent chromium hits but below the current residential standard. We are not sure where those hexavalent chromium results originate from, particularly since S-3 is ND for hex chrome. That leads to the background samples collected. There were seven background samples taken, that is samples from elevations above the trail that could not have been impacted from runoff from the Alliance property. All of the sample locations are identified in the pdf named 2024_09 Trail Sample Locations. Three of the samples, S-18, S-21 and S-22 identified hexavalent chromium in the samples at 0.86 mg/kg, 32/7.7 mg/kg and 3.9 mg/kg respectively. Note the variation in the duplicate for S-21. This demonstrates the randomness of identifying hexavalent chromium. It is more important at this point that the background sampling has identified hexavalent chromium rather than the absolute value of the result. Photos are attached for the S-18, S-21 and S-22 locations to show you the locations and elevations. The approximate sample locations are in the blue circles. For the photo of S22 and S23, sample S22 is from the highest location and S23 is the lower location which was ND for hex chrome. For the photo of S18 S19 S20, sample S18 is at the top of the hill and S19 and 20 are further down. S19 and S20 were ND. Again these results show how random these hits are.

If you would like, we may discuss these results further during the 10/28 virtual meeting.

Regards, Anthony



ANTHONY J. REITANO, ESQ.

Tel: (908) 647-1022

Fax: (908) 647-7721

25 Independence Boulevard
Warren, NJ 07059

areitano@heroldlaw.com

<http://www.heroldlaw.com>

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From: Anthony J. Reitano

Sent: Thursday, September 19, 2024 11:34 AM

To: 'Brown, C David' <cdbrown@pa.gov>; Eric Carlson <ecarlson@alliancehp.com>; Brunt, Larry <Larry.Brunt@arcadis.com>

Cc: Costello, Andrea <acostello@pa.gov>; Patel, Ragesh <rapatel@pa.gov>; Sabetta, Matthew <msabetta@pa.gov>; McCarthy, Christine <chmccarthy@pa.gov>; McClennen, Bonnie <bmcclennen@pa.gov>; Suarez Rivera, Glorines <gsuarezriv@pa.gov>

Subject: RE: DRAFT response - RE: [External] FW: Alliance 51st Street PADEP Split Sample Results

David:

In follow-up to your e-mail below, Alliance retained its contractor to clean up the locations you pointed out in your e-mail below – S-3, S-5 and S-6 and S-8A. Attached in the pdf are before and after photos of the three areas. We do note that S-5 and S-6 get quite a bit of debris, most likely have the river high tide. You will see from the photo from Tuesday of this area in the pdf after the cleanup, which shows the area very clean, and then the jpg photo from yesterday, which shows debris after just 24 hours. The concern here is what could the river be depositing in the S-5/S-6 area from sources unrelated to the Alliance property.

We also were already considering taking some samples from locations not impacted by the Alliance site. You suggested this as well in your e-mail. Samples were taken from locations at a higher elevation than the trail that do not receive runoff from the Alliance site.

We are expecting all the laboratory results by about Thursday, September 26th. We decided to use the Eurofins Lancaster, PA lab for the laboratory analysis. This eliminates the potential variability by having different labs performing the laboratory analysis if PADEP performs any follow-up. Of course, we will share the lab results and sample locations with you.

Any questions on this, let us know.

Regards,, Anthony



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Tel: (908) 647-1022

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25 Independence Boulevard
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areitano@heroldlaw.com

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From: Brown, C David <cdbrown@pa.gov>

Sent: Monday, September 9, 2024 11:08 AM

To: Anthony J. Reitano <areitano@heroldlaw.com>; Eric Carlson <ecarlson@alliancehp.com>; Brunt, Larry <Larry.Brunt@arcadis.com>

Cc: Costello, Andrea <acostello@pa.gov>; Patel, Ragesh <rapatel@pa.gov>; Sabetta, Matthew <msabetta@pa.gov>; McCarthy, Christine <chmccarthy@pa.gov>; McClennen, Bonnie <bmcclennen@pa.gov>; Suarez Rivera, Glorines <gsuarezriv@pa.gov>

Subject: RE: DRAFT response - RE: [External] FW: Alliance 51st Street PADEP Split Sample Results

Anthony,

We recognize the significant differences in DEP's and Alliance's results. We question whether this is just caused by nonuniformity in the samples; if that were the case, we should then see some DEP results that are lower than yours. Because the Alliance results have been consistently lower than DEP's in all the samples, it's possible that the discrepancy is caused by differences in lab practices or implementation of the methodology. We can discuss with you how you might test for that possibility.

We believe it's very unlikely that sampling or analysis is going to cause an erroneously high bias to chromium VI results. For this reason, we are relying on DEP's results as most representative of the remaining soil contamination. We do not consider averaging the DEP and Alliance concentrations to be appropriate. DEP is most concerned with the highest concentrations detected. Addressing all of the exceeding results will also be most successful at lessening the public concerns.

We understand your position that other sources, such as paint, may be contributing to chromium VI in soil at the trail. However, based on our observations, the area of S5 and S6 was also potentially impacted by the discharge from the Alliance property. To test the hypothesis that paint from the bridge is a dominant contributor, we'd suggest collecting additional soil samples near the bridge at a location not affected by the discharge.

Samples S3 and S5 exceed the standard of 37 mg/kg. Sample S6 is proximal to S5, and we recommend scraping that combined area. Sample 8A is marginally below the standard, and we recommend removing the soil which potentially exceeds in the vicinity of 8A.

We've attached images and a map to clarify these locations.

Please let us know when you schedule additional trail remediation.

Thank you for your continued attention to this matter. We appreciate your cooperation.

C. David Brown P.G. | Professional Geologist Manager
Environmental Cleanup & Brownfields Program
Department of Environmental Protection | Southeast Regional Office
2 East Main Street | Norristown, PA 19401
Phone: 484.250.5792 | Fax: 484.250.5961
www.dep.pa.gov

From: Anthony J. Reitano <areitano@heroldlaw.com>

Sent: Wednesday, August 28, 2024 2:21 PM

To: Patel, Ragesh <rapatel@pa.gov>

Cc: Sabetta, Matthew <msabetta@pa.gov>; Eric Carlson <ecarlson@alliancehp.com>; 'Brunt, Larry' <Larry.Brunt@arcadis.com>; Costello, Andrea <acostello@pa.gov>; McCarthy, Christine <chmccarthy@pa.gov>; McClennen, Bonnie <bmccclennen@pa.gov>; Brown, C David <cdbrown@pa.gov>

Subject: RE: [External] FW: Alliance 51st Street PADEP Split Sample Results

Ragesh:

Thanks for the PADEP sampling results. You are requesting excavation at samples S3, S5, S6 and S8A. While we are reviewing the results, Alliance is trying to figure what excavation is related to each sample point. We could use some photos/mark out of the exact areas you are requesting be excavated. Anything you could provide on that would be helpful. We are sure PADEP would want to perform follow-up testing so it is important we have agreement on the areas you are requesting be excavated.

While we are working through the above with your office for the excavation areas, we have conducted a preliminary review of the test results. We created the table below comparing the PADEP and Alliance laboratory results for the four locations for which PADEP is requiring further excavation. There is a wide disparity in the results. We have reviewed our laboratory report, provided to PADEP yesterday, and are not finding any reason the results are not valid. Given that the soil sample was mixed in the field and then both PADEP and Alliance samples taken from the same container, the conclusion we have drawn is that the presence of hexavalent chromium must be limited and sporadic. In other words hexavalent chromium is not uniform in the sample or in the ground. In order to determine the risk, we believe the two sample results should be averaged. The table below gives the average of the two results for S3, S5 and S8A which are all below the residential standard of 37 mg/kg. We also note both results for S6 are well below the residential standard so not sure why excavation there has been requested. We also note that S5 and S6 are under the railroad bridge. In doing some research to respond to public comments on the stormwater permit modification, we found references to articles describing the use of hexavalent chromium as a corrosion inhibitor in paints used on bridges. The results here in S5 and S6 may be from paint used years ago that has long chipped off the bridge and remains in the environment. We point this out because Alliance's observations of the end of drainage swale from the Alliance property and downstream on the trail do not show the presence of sediment leaving the site.

Alliance is prepared to continue to address any offsite impact from its property. We just need to be sure that Alliance is not being asked to remediate the remnants of decades of chromium originating from other sources or from the property prior to its acquisition of the 51st property.

Sample number	PADEP Cr+6 Result	Alliance CR+6 Result	Average
S3	57 mg/kg	4.27 mg/kg	30.6 mg/kg
S5	62 mg/kg	7.06 mg/kg	34.5 mg/kg
S6	8.3 mg/kg	5.04 mg/kg	6.7 mg/kg
S8A	35 mg/kg	7.3 mg/kg	21.2 mg/kg

We appreciate the continued communications between PADEP and Alliance and our working together to resolve these issues.

Regards, Anthony



ANTHONY J. REITANO, ESQ.

Tel: (908) 647-1022

Fax: (908) 647-7721

25 Independence Boulevard
Warren, NJ 07059

areitano@heroldlaw.com

<http://www.heroldlaw.com>

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From: Patel, Ragesh <rapatel@pa.gov>

Sent: Monday, August 26, 2024 1:36 PM

To: Anthony J. Reitano <areitano@heroldlaw.com>

Cc: Sabetta, Matthew <msabetta@pa.gov>; Eric Carlson <ecarlson@alliancehp.com>; 'Brunt, Larry' <Larry.Brunt@arcadis.com>; Costello, Andrea <acostello@pa.gov>; McCarthy, Christine <chmccarthy@pa.gov>; McClennen, Bonnie <bmccclennen@pa.gov>; Brown, C David <cdbrown@pa.gov>

Subject: RE: [External] FW: Alliance 51st Street PADEP Split Sample Results

Good Afternoon Mr. Reitano,

This morning, DEP received the final analytical results report from the August 13, 2024 sampling (attached). Our results indicate detections of Cr(VI) at the S6 and S8A locations, and exceedances of the current published Cr(VI) MSC (37mg/kg) at the S3 and S5 locations. Soil samples were homogenized in the field prior to DEP and Arcadis collecting split samples. At this time, DEP requests a copy of Arcadis's full analytical results report for review.

Based on DEP's results, additional cleanup is needed at the S3, S5, S6, and S8A locations. The S3 soil sample was collected immediately next to the stone that was placed outside of the Alliance property fence. It is likely that not all of the contaminated soil was removed from this area during the cleanup effort in early August. Similarly, the S8A soil sample was collected from the closest accumulation of soil to the 7/22/24 S8 sample location. DEP's 7/22/24 sample results at S5 and S6 were non-detect, so no cleanup effort was completed in this area. Based on the 8/13/24 results, additional cleanup is needed.

If you have any questions, please let us know.

Thank you for cooperation and working with the Department.

Ragesh

Ragesh R Patel (he/him/his) | Environmental Program Manager
Department of Environmental Protection | Southeast Regional Office
2 E. Main Street | Norristown, PA 19401
Phone: 484.250.5716 | Fax: 484.250.5961
www.dep.pa.gov

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From: Anthony J. Reitano <areitano@heroldlaw.com>
Sent: Tuesday, August 20, 2024 3:09 PM
To: Patel, Ragesh <rapatel@pa.gov>
Cc: Sabetta, Matthew <msabetta@pa.gov>; Eric Carlson <ecarlson@alliancehp.com>; 'Brunt, Larry' <Larry.Brunt@arcadis.com>; Costello, Andrea <acostello@pa.gov>; McCarthy, Christine <chmccarthy@pa.gov>; McClennen, Bonnie <bmccclennen@pa.gov>
Subject: [External] FW: Alliance 51st Street PADEP Split Sample Results

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Ragesh:

PADEP requested that some surface soil samples be taken from onsite. That work was done on August 2, 2024 with normal lab turnaround. Attached is a draft figure of the location of the surface soil samples and a table with the data. The figure has all the prior sample locations with color coding as to what was observed. For this sampling event samples S-206, S-209, and S-602 were taken from locations with yellow staining on the surface. S-206, and S- 209, have yellow staining at depth below grade from 2022 investigations and have the recent test pits which identified the fill layer. You will note for the S-604 results, hexavalent chromium is much higher than total chromium which we question. We have asked the laboratory to rerun that sample for both total chromium and hexavalent chromium.

Also attached is a draft figure of the PADEP split soil samples collected along the trail on August 13, 2024. The analytical results for those soil samples and the split samples of the water collected in the swale onsite are also attached. All the trail hexavalent chromium results are below the residential standard.

We look forward to our virtual meeting tomorrow.

Regards, Anthony



ANTHONY J. REITANO, ESQ.

Tel: (908) 647-1022

Fax: (908) 647-7721

25 Independence Boulevard
Warren, NJ 07059

areitano@heroldlaw.com

<http://www.heroldlaw.com>

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Table X
Summary of Soil Sampling Results- September 16, 2024
Alliance 51st Street LLC
1646 South 51st Street
Philadelphia, Pennsylvania

SAMPLE ID:	Pennsylvania Residential Direct Contact Soil MSCs	S-3		S-5		S-6		S-8A		S-16		S-18	
LAB ID:		410-188472-10		410-188472-11		410-188472-12		410-188472-1		410-188472-2		410-188472-3	
COLLECTION DATE:		9/16/2024		9/16/2024		9/16/2024		9/16/2024		9/16/2024		9/16/2024	
SAMPLE MATRIX:		Soil		Soil		Soil		Soil		Soil		Soil	
ANALYTE	(mg/kg)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
GENERAL CHEMISTRY													
Chromium, Trivalent*	190000	310		270		250		550		79		59	
Chromium, Hexavalent	37	ND	ND	24		5.8		16		ND		0.86	J
TOTAL METALS													
Chromium, Total	NS	5		300		250		560		79		60	

SAMPLE ID:	Pennsylvania Residential Direct Contact Soil MSCs	S-19		S-20		S-21		Dup-1		S-22		S-23	
LAB ID:		410-188472-4		410-188472-5		410-188472-6		410-188472-9		410-188472-7		410-188472-8	
COLLECTION DATE:		9/16/2024		9/16/2024		9/16/2024		9/16/2024		9/16/2024		9/16/2024	
SAMPLE MATRIX:		Soil		Soil		Soil		Soil		Soil		Soil	
ANALYTE	(mg/kg)	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
GENERAL CHEMISTRY													
Chromium, Trivalent*	190000	56		41						150		56	
Chromium, Hexavalent	37	ND		ND		32		7.7		3.9		ND	
TOTAL METALS													
Chromium, Total	NS	56		41		980		980		160		56	

NOTES:

MSC - Medium Specific Concentration

PADEP - Pennsylvania Department of Environmental Protection

Q - Qualifier

Conc - Concentration

* calculated based on the difference between detected total chromium and hexavalent chromium concentrations

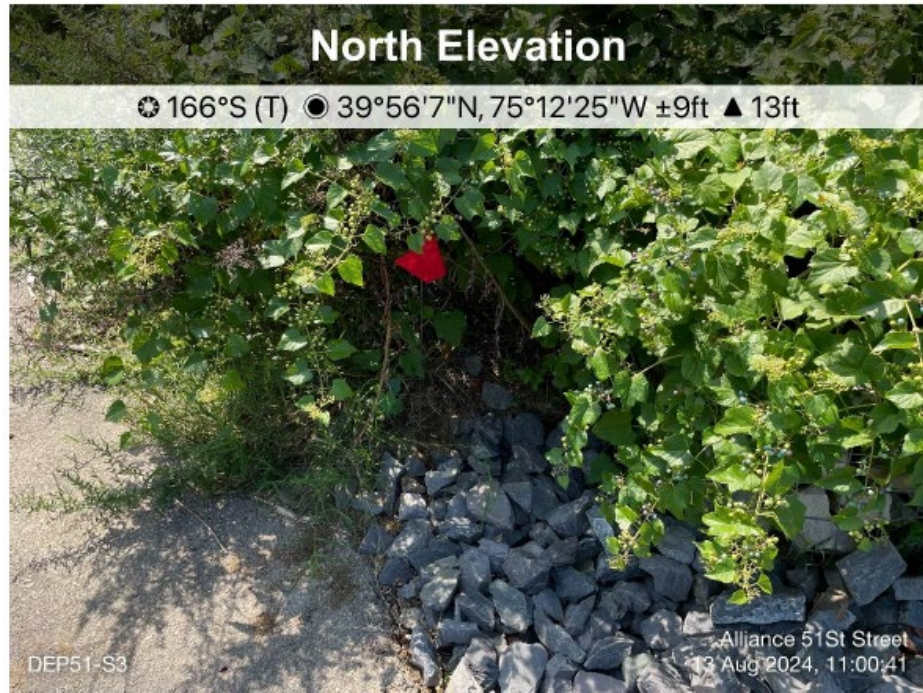
U - Compound was undetected at the listed laboratory method detection limit.

Concentrations reported in miligrams per kilogram (mg/kg)

2024.08.13 DEP Soil Sample Locations
Bartram's Mile Trail
Philadelphia, PA



Before Cleanup



DEP51-S3 – Collected from soil next to placed stone.

After Clean Up (9/17)



Before Cleanup



DEP51-S5 was collected from adjacent to the concrete wall and drainpipe. DEP51-S6 was collected closest to the river.

After Clean Up (9/17)



Before Cleanup



DEP51-S8A was collected from an area of accumulated soil downgradient of the original DEP51-S8 location.

After Clean Up (9/17)













WARNING
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CALL TOLL FREE
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BEFORE EXCAVATING
SEE MARKER POS.
C-651

SOPA
303
JUST DO IT
SIMA

Praise
center! ERY
2020
TRIP
ACAB
XOXO

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Matt Hilinski
Arcadis U.S., Inc.
17-17 Route 208 North
Suite 200 West
Fair Lawn, New Jersey 07410

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JOB DESCRIPTION

Alliance 51st Street

JOB NUMBER

410-188472-1

Eurofins Lancaster Laboratories Environment Testing, LLC

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Megan.Moeller@et.eurofinsus.com
(717)556-7261

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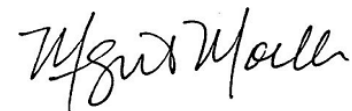




Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Detection Summary	7
Client Sample Results	9
QC Sample Results	14
QC Association Summary	16
Lab Chronicle	19
Certification Summary	24
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Qualifiers

General Chemistry

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: Alliance 51st Street

Job ID: 410-188472-1

Job ID: 410-188472-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-188472-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 9/17/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The COC is missing the sample state, the sample preservation, and the number of containers per sample (2nd page only). This does not meet regulatory requirements.

Metals

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

General Chemistry

Method 7196A: The following samples were diluted due to the nature of the sample matrix: S-18 (410-188472-3) and S-20 (410-188472-5). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-8A

Lab Sample ID: 410-188472-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	560		3.1	1.5	mg/Kg	10	✖	6020B	Total/NA
Cr (VI)	16		3.4	1.1	mg/Kg	5	✖	7196A	Total/NA
Cr (III)	550		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-16

Lab Sample ID: 410-188472-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	79		0.32	0.15	mg/Kg	2	✖	6020B	Total/NA
Cr (III)	79		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-18

Lab Sample ID: 410-188472-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	60		0.40	0.19	mg/Kg	2	✖	6020B	Total/NA
Cr (VI)	0.86	J cn	2.2	0.74	mg/Kg	5	✖	7196A	Total/NA
Cr (III)	59		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-19

Lab Sample ID: 410-188472-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	56		0.38	0.18	mg/Kg	2	✖	6020B	Total/NA
Cr (III)	56		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-20

Lab Sample ID: 410-188472-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	41		0.38	0.18	mg/Kg	2	✖	6020B	Total/NA
Cr (III)	41		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-21

Lab Sample ID: 410-188472-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	980		16	7.6	mg/Kg	100	✖	6020B	Total/NA
Cr (VI)	32		0.44	0.15	mg/Kg	1	✖	7196A	Total/NA
Cr (III)	940		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-22

Lab Sample ID: 410-188472-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	160		0.42	0.20	mg/Kg	2	✖	6020B	Total/NA
Cr (VI)	3.9		0.43	0.14	mg/Kg	1	✖	7196A	Total/NA
Cr (III)	150		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: S-23

Lab Sample ID: 410-188472-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	56		0.38	0.18	mg/Kg	2	✖	6020B	Total/NA
Cr (III)	56		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 410-188472-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	980		19	9.2	mg/Kg	100	✖	6020B	Total/NA
Cr (VI)	7.7		0.45	0.15	mg/Kg	1	✖	7196A	Total/NA
Cr (III)	970		0.011	0.0035	mg/Kg	1	✖	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-3

Lab Sample ID: 410-188472-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	310		2.0	0.95	mg/Kg	10	✱	6020B	Total/NA
Cr (III)	310		0.011	0.0035	mg/Kg	1	✱	7196A	Total/NA

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	300		2.2	1.0	mg/Kg	10	✱	6020B	Total/NA
Cr (VI)	24		0.55	0.18	mg/Kg	1	✱	7196A	Total/NA
Cr (III)	270		0.011	0.0035	mg/Kg	1	✱	7196A	Total/NA

Client Sample ID: S-6

Lab Sample ID: 410-188472-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	250		1.9	0.90	mg/Kg	10	✱	6020B	Total/NA
Cr (VI)	5.8		0.48	0.16	mg/Kg	1	✱	7196A	Total/NA
Cr (III)	250		0.011	0.0035	mg/Kg	1	✱	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-8A

Date Collected: 09/16/24 10:40

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-1

Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	550		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	39.8		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-8A

Date Collected: 09/16/24 10:40

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-1

Matrix: Soil

Percent Solids: 60.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	560		3.1	1.5	mg/Kg	☆	09/19/24 21:00	09/26/24 12:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	16		3.4	1.1	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-16

Date Collected: 09/16/24 10:55

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-2

Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	79		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	2.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-16

Date Collected: 09/16/24 10:55

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-2

Matrix: Soil

Percent Solids: 98.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	79		0.32	0.15	mg/Kg	☆	09/19/24 21:00	09/26/24 12:25	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.42	0.14	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-18

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-3

Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	59		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-18

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-3

Matrix: Soil

Percent Solids: 93.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	60		0.40	0.19	mg/Kg	☆	09/19/24 21:00	09/26/24 12:29	2

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-18

Lab Sample ID: 410-188472-3

Date Collected: 09/16/24 11:00

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 93.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.86	J cn	2.2	0.74	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-19

Lab Sample ID: 410-188472-4

Date Collected: 09/16/24 11:03

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	56		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	4.5		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-19

Lab Sample ID: 410-188472-4

Date Collected: 09/16/24 11:03

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 95.5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	56		0.38	0.18	mg/Kg	☆	09/19/24 21:00	09/26/24 12:33	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.42	0.14	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-20

Lab Sample ID: 410-188472-5

Date Collected: 09/16/24 11:05

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	41		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.2		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-20

Lab Sample ID: 410-188472-5

Date Collected: 09/16/24 11:05

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 92.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	41		0.38	0.18	mg/Kg	☆	09/19/24 21:00	09/26/24 12:43	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND	cn	2.2	0.75	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	5

Client Sample ID: S-21

Lab Sample ID: 410-188472-6

Date Collected: 09/16/24 11:10

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	940		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.6		1.0	1.0	%			09/19/24 13:34	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-21

Lab Sample ID: 410-188472-6

Date Collected: 09/16/24 11:10

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 92.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	980		16	7.6	mg/Kg	☆	09/19/24 21:00	09/26/24 18:45	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	32		0.44	0.15	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-22

Lab Sample ID: 410-188472-7

Date Collected: 09/16/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	150		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	4.8		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-22

Lab Sample ID: 410-188472-7

Date Collected: 09/16/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 95.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	160		0.42	0.20	mg/Kg	☆	09/19/24 21:00	09/26/24 12:47	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	3.9		0.43	0.14	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-23

Lab Sample ID: 410-188472-8

Date Collected: 09/16/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	56		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	3.1		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-23

Lab Sample ID: 410-188472-8

Date Collected: 09/16/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 96.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	56		0.38	0.18	mg/Kg	☆	09/19/24 21:00	09/26/24 12:51	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.43	0.14	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: DUP-1

Lab Sample ID: 410-188472-9

Date Collected: 09/16/24 00:00

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	970		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	7.3		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: DUP-1

Lab Sample ID: 410-188472-9

Date Collected: 09/16/24 00:00

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 92.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	980		19	9.2	mg/Kg	☆	09/19/24 21:00	09/26/24 18:47	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	7.7		0.45	0.15	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-3

Lab Sample ID: 410-188472-10

Date Collected: 09/17/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	310		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	5.0		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-3

Lab Sample ID: 410-188472-10

Date Collected: 09/17/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 95.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	310		2.0	0.95	mg/Kg	☆	09/19/24 21:00	09/26/24 13:07	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	ND		0.43	0.14	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	270		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	23.6		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 76.4

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	300		2.2	1.0	mg/Kg	☆	09/19/24 21:00	09/26/24 13:11	10

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 76.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	24		0.55	0.18	mg/Kg	☆	09/20/24 10:51	09/23/24 18:45	1

Client Sample ID: S-6

Lab Sample ID: 410-188472-12

Date Collected: 09/17/24 11:25

Matrix: Soil

Date Received: 09/17/24 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III) (SW846 7196A)	250		0.011	0.0035	mg/Kg	☆		09/20/24 09:31	1
Percent Moisture (EPA Moisture)	13.1		1.0	1.0	%			09/19/24 13:34	1

Client Sample ID: S-6

Lab Sample ID: 410-188472-12

Date Collected: 09/17/24 11:25

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 86.9

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	250		1.9	0.90	mg/Kg	☆	09/19/24 21:00	09/26/24 12:09	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	5.8		0.48	0.16	mg/Kg	☆	09/20/24 10:09	09/23/24 18:45	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-553465/1-A ^2
Matrix: Solid
Analysis Batch: 556131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.40	0.19	mg/Kg		09/19/24 21:00	09/26/24 11:16	2

Lab Sample ID: LCS 410-553465/2-A ^2
Matrix: Solid
Analysis Batch: 556131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	50.0	50.7		mg/Kg		101	86 - 116

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-553700/1-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.42	0.14	mg/Kg		09/20/24 10:09	09/23/24 18:45	1

Lab Sample ID: LCS 410-553700/2-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.00	4.66		mg/Kg		93	80 - 120

Lab Sample ID: LCS 410-553700/3-A
Matrix: Solid
Analysis Batch: 554639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	701	721		mg/Kg		103	80 - 120

Lab Sample ID: 410-188472-12 MSI
Matrix: Soil
Analysis Batch: 554639

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.8		829	807		mg/Kg	✱	97	75 - 125

Lab Sample ID: 410-188472-12 MSS
Matrix: Soil
Analysis Batch: 554639

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 553700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	5.8		45.8	44.2		mg/Kg	✱	84	75 - 125

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 410-188472-12 DU				Client Sample ID: S-6			
Matrix: Soil				Prep Type: Total/NA			
Analysis Batch: 554639				Prep Batch: 553700			
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD Limit
Cr (VI)	5.8		6.41		mg/Kg	✱	10 20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Metals

Prep Batch: 553465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	3050B	
410-188472-2	S-16	Total/NA	Soil	3050B	
410-188472-3	S-18	Total/NA	Soil	3050B	
410-188472-4	S-19	Total/NA	Soil	3050B	
410-188472-5	S-20	Total/NA	Soil	3050B	
410-188472-6	S-21	Total/NA	Soil	3050B	
410-188472-7	S-22	Total/NA	Soil	3050B	
410-188472-8	S-23	Total/NA	Soil	3050B	
410-188472-9	DUP-1	Total/NA	Soil	3050B	
410-188472-10	S-3	Total/NA	Soil	3050B	
410-188472-11	S-5	Total/NA	Soil	3050B	
410-188472-12	S-6	Total/NA	Soil	3050B	
MB 410-553465/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-553465/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 556131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	6020B	553465
410-188472-2	S-16	Total/NA	Soil	6020B	553465
410-188472-3	S-18	Total/NA	Soil	6020B	553465
410-188472-4	S-19	Total/NA	Soil	6020B	553465
410-188472-5	S-20	Total/NA	Soil	6020B	553465
410-188472-7	S-22	Total/NA	Soil	6020B	553465
410-188472-8	S-23	Total/NA	Soil	6020B	553465
410-188472-10	S-3	Total/NA	Soil	6020B	553465
410-188472-11	S-5	Total/NA	Soil	6020B	553465
410-188472-12	S-6	Total/NA	Soil	6020B	553465
MB 410-553465/1-A ^2	Method Blank	Total/NA	Solid	6020B	553465
LCS 410-553465/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	553465

Analysis Batch: 556295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-6	S-21	Total/NA	Soil	6020B	553465
410-188472-9	DUP-1	Total/NA	Soil	6020B	553465

General Chemistry

Analysis Batch: 551732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	7196A	
410-188472-2	S-16	Total/NA	Soil	7196A	
410-188472-3	S-18	Total/NA	Soil	7196A	
410-188472-4	S-19	Total/NA	Soil	7196A	
410-188472-5	S-20	Total/NA	Soil	7196A	
410-188472-6	S-21	Total/NA	Soil	7196A	
410-188472-7	S-22	Total/NA	Soil	7196A	
410-188472-8	S-23	Total/NA	Soil	7196A	
410-188472-9	DUP-1	Total/NA	Soil	7196A	
410-188472-10	S-3	Total/NA	Soil	7196A	
410-188472-11	S-5	Total/NA	Soil	7196A	
410-188472-12	S-6	Total/NA	Soil	7196A	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

General Chemistry

Analysis Batch: 553323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	Moisture	
410-188472-2	S-16	Total/NA	Soil	Moisture	
410-188472-3	S-18	Total/NA	Soil	Moisture	
410-188472-4	S-19	Total/NA	Soil	Moisture	
410-188472-5	S-20	Total/NA	Soil	Moisture	
410-188472-6	S-21	Total/NA	Soil	Moisture	
410-188472-7	S-22	Total/NA	Soil	Moisture	
410-188472-8	S-23	Total/NA	Soil	Moisture	
410-188472-9	DUP-1	Total/NA	Soil	Moisture	
410-188472-10	S-3	Total/NA	Soil	Moisture	
410-188472-11	S-5	Total/NA	Soil	Moisture	
410-188472-12	S-6	Total/NA	Soil	Moisture	

Prep Batch: 553700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	3060A	
410-188472-2	S-16	Total/NA	Soil	3060A	
410-188472-3	S-18	Total/NA	Soil	3060A	
410-188472-4	S-19	Total/NA	Soil	3060A	
410-188472-5	S-20	Total/NA	Soil	3060A	
410-188472-6	S-21	Total/NA	Soil	3060A	
410-188472-7	S-22	Total/NA	Soil	3060A	
410-188472-8	S-23	Total/NA	Soil	3060A	
410-188472-9	DUP-1	Total/NA	Soil	3060A	
410-188472-10	S-3	Total/NA	Soil	3060A	
410-188472-11	S-5	Total/NA	Soil	3060A	
410-188472-12	S-6	Total/NA	Soil	3060A	
MB 410-553700/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-553700/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-553700/3-A	Lab Control Sample	Total/NA	Solid	3060A	
410-188472-12 MSI	S-6	Total/NA	Soil	3060A	
410-188472-12 MSS	S-6	Total/NA	Soil	3060A	
410-188472-12 DU	S-6	Total/NA	Soil	3060A	

Analysis Batch: 554639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-1	S-8A	Total/NA	Soil	7196A	553700
410-188472-2	S-16	Total/NA	Soil	7196A	553700
410-188472-3	S-18	Total/NA	Soil	7196A	553700
410-188472-4	S-19	Total/NA	Soil	7196A	553700
410-188472-5	S-20	Total/NA	Soil	7196A	553700
410-188472-6	S-21	Total/NA	Soil	7196A	553700
410-188472-7	S-22	Total/NA	Soil	7196A	553700
410-188472-8	S-23	Total/NA	Soil	7196A	553700
410-188472-9	DUP-1	Total/NA	Soil	7196A	553700
410-188472-10	S-3	Total/NA	Soil	7196A	553700
410-188472-11	S-5	Total/NA	Soil	7196A	553700
410-188472-12	S-6	Total/NA	Soil	7196A	553700
MB 410-553700/1-A	Method Blank	Total/NA	Solid	7196A	553700
LCS 410-553700/2-A	Lab Control Sample	Total/NA	Solid	7196A	553700
LCSI 410-553700/3-A	Lab Control Sample	Total/NA	Solid	7196A	553700

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

General Chemistry (Continued)

Analysis Batch: 554639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-188472-12 MSI	S-6	Total/NA	Soil	7196A	553700
410-188472-12 MSS	S-6	Total/NA	Soil	7196A	553700
410-188472-12 DU	S-6	Total/NA	Soil	7196A	553700

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-8A

Lab Sample ID: 410-188472-1

Date Collected: 09/16/24 10:40

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-8A

Lab Sample ID: 410-188472-1

Date Collected: 09/16/24 10:40

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 60.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 12:23
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-16

Lab Sample ID: 410-188472-2

Date Collected: 09/16/24 10:55

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-16

Lab Sample ID: 410-188472-2

Date Collected: 09/16/24 10:55

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:25
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-18

Lab Sample ID: 410-188472-3

Date Collected: 09/16/24 11:00

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-18

Lab Sample ID: 410-188472-3

Date Collected: 09/16/24 11:00

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:29

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-18

Date Collected: 09/16/24 11:00

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-3

Matrix: Soil

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-19

Date Collected: 09/16/24 11:03

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-4

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-19

Date Collected: 09/16/24 11:03

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-4

Matrix: Soil

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:33
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-20

Date Collected: 09/16/24 11:05

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-5

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-20

Date Collected: 09/16/24 11:05

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-5

Matrix: Soil

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:43
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		5	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-21

Date Collected: 09/16/24 11:10

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-6

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-21

Date Collected: 09/16/24 11:10

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-6

Matrix: Soil

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		100	556295	T8CQ	ELLE	09/26/24 18:45
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-22

Date Collected: 09/16/24 11:15

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-7

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-22

Date Collected: 09/16/24 11:15

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-7

Matrix: Soil

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:47
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-23

Date Collected: 09/16/24 11:20

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-8

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-23

Date Collected: 09/16/24 11:20

Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-8

Matrix: Soil

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		2	556131	F7JF	ELLE	09/26/24 12:51
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: DUP-1

Lab Sample ID: 410-188472-9

Date Collected: 09/16/24 00:00

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: DUP-1

Lab Sample ID: 410-188472-9

Date Collected: 09/16/24 00:00

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		100	556295	T8CQ	ELLE	09/26/24 18:47
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-3

Lab Sample ID: 410-188472-10

Date Collected: 09/17/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-3

Lab Sample ID: 410-188472-10

Date Collected: 09/17/24 11:15

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 13:07
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-5

Lab Sample ID: 410-188472-11

Date Collected: 09/17/24 11:20

Matrix: Soil

Date Received: 09/17/24 16:20

Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 13:11

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Client Sample ID: S-5
Date Collected: 09/17/24 11:20
Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-11
Matrix: Soil
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:51
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Client Sample ID: S-6
Date Collected: 09/17/24 11:25
Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-12
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	7196A		1	551732	MRD6	ELLE	09/20/24 09:31
Total/NA	Analysis	Moisture		1	553323	UVJN	ELLE	09/19/24 13:34

Client Sample ID: S-6
Date Collected: 09/17/24 11:25
Date Received: 09/17/24 16:20

Lab Sample ID: 410-188472-12
Matrix: Soil
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			553465	UAMX	ELLE	09/19/24 21:00
Total/NA	Analysis	6020B		10	556131	F7JF	ELLE	09/26/24 12:09
Total/NA	Prep	3060A			553700	W2JF	ELLE	09/20/24 10:09
Total/NA	Analysis	7196A		1	554639	UDS7	ELLE	09/23/24 18:45

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24 *
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7196A	Chromium, Trivalent (Colorimetric)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Alliance 51st Street

Job ID: 410-188472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-188472-1	S-8A	Soil	09/16/24 10:40	09/17/24 16:20
410-188472-2	S-16	Soil	09/16/24 10:55	09/17/24 16:20
410-188472-3	S-18	Soil	09/16/24 11:00	09/17/24 16:20
410-188472-4	S-19	Soil	09/16/24 11:03	09/17/24 16:20
410-188472-5	S-20	Soil	09/16/24 11:05	09/17/24 16:20
410-188472-6	S-21	Soil	09/16/24 11:10	09/17/24 16:20
410-188472-7	S-22	Soil	09/16/24 11:15	09/17/24 16:20
410-188472-8	S-23	Soil	09/16/24 11:20	09/17/24 16:20
410-188472-9	DUP-1	Soil	09/16/24 00:00	09/17/24 16:20
410-188472-10	S-3	Soil	09/17/24 11:15	09/17/24 16:20
410-188472-11	S-5	Soil	09/17/24 11:20	09/17/24 16:20
410-188472-12	S-6	Soil	09/17/24 11:25	09/17/24 16:20

Chain of Custody Record

410-188472 Chain of Custody

[illegible]

Environment Testing

9/27/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 410-188472-1

Login Number: 188472

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	