



May 3, 2024
ES-8574.05

Earth Solutions NW LLC

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

NW Laborers United
22323 Pacific Highway South
Des Moines, Washington 98198

Attention: Dale Cannon

**Subject: Confirmatory Soil Sampling
Laborers Local 242 Training Building
22205 Pacific Highway South
Des Moines, Washington**

Dear Dale:

Earth Solutions NW, LLC (ESNW) has prepared this letter summarizing our confirmatory soil sampling efforts performed at the above-referenced Laborers Local 242 Training Building property (subject property), located at 22205 Pacific Highway South, in Des Moines, Washington (see attached Plate 1 for subject property location). A small area of arsenic and lead impacted soil (approximately 25 square feet in size) was identified along the northeast corner of the subject property following a Tacoma Smelter Plume fallout assessment performed throughout the subject property by ESNW on December 20, 2023. The identified arsenic and lead impacted soil area was determined to be associated with contaminated imported fill at the subject property and not the result of the Tacoma Smelter Plume fallout. Remaining areas of the subject property reportedly had arsenic and lead concentrations that were below their corresponding Ecology MTCA Method A unrestricted soil cleanup levels. The Tacoma Smelter Plume Assessment completed at the site by ESNW was summarized in a February 8, 2024 report that was previously submitted to NW Laborers United and Washington Department of Ecology.

The small area of identified arsenic and lead impacted soil located along the northeast corner of the subject property was excavated and transported off-site for disposal at Waste Management's disposal facility. Following excavation, ESNW completed confirmatory soil sampling within excavation area on April 2, 2024. Groundwater seepage was not encountered within the excavation.

ESNW's services included collecting three confirmatory soil samples within the arsenic and lead impacted soil area following excavation and submitting the soil samples to a State Certified laboratory for arsenic and lead analysis.

In summary, laboratory analytical results of the confirmatory soil samples collected by ESNW following excavation of the arsenic and lead contaminated area along the northeast corner of the subject property did not identify detectable concentrations of arsenic. Detectable concentrations of lead were identified within all three confirmatory soil samples at levels well below the Ecology's Model Toxics Control Act (MTCA) Method A unrestricted land use lead soil cleanup level of 250 milligrams per kilogram (mg/kg).

Confirmatory Soil Sampling

On April 2, 2024, ESNW collected a total of three confirmatory soil samples within the former arsenic and lead impacted soil area along the northeast corner of the subject property following soil excavation activities. Specially, one confirmatory soil sample was collected from the north side wall, one from the south side wall, and one from the bottom of the excavation (see attached Plate 2 for confirmatory soil sample locations).

Prior to arrival at the subject property and between soil sample locations, the soil sampling equipment was decontaminated using a detergent (Liquinox) mixed with water. Nitrile type gloves were worn during sampling activities at the subject property. Soil samples collected for analysis were transferred in the field from the sampling locations and sealed into glass sampling jars supplied by the laboratory.

The containers storing the soil samples were sealed, labeled, and stored on ice in a cooler until delivery to the laboratory. Soil samples were delivered to OnSite Environmental, Inc. in Redmond, Washington, to be analyzed for the following:

- Total Arsenic by Environmental Protection Agency (EPA) Analytical Method 6010D.
- Total Lead by EPA Analytical Method 6010D.

Analytical Results

Soil Sample Analytical Results

No detectable concentrations of arsenic were identified in the three confirmatory soil samples collected by ESNW.

Lead was detected in all three confirmatory soil samples collected within the excavation, but at concentrations well below Ecology's MTCA Method A unrestricted land use lead soil clean up level of 250 mg/kg.

A copy of the soil sample analytical laboratory report is also included as an attachment to this report.

Summary and Conclusions

Consistent with NW Laborers United's request, ESNW completed confirmatory soil sampling within a small excavation completed along the northeast corner of the subject property. This investigation included (1) collecting a total of three confirmatory soil samples from the former arsenic and lead impacted soil excavation; and (2) submitting the soil samples to a State Certified laboratory for chemical analysis.

The results of this investigation did not reveal detectable concentrations of arsenic or lead in soil samples collected during this investigation as exceeding Ecology's corresponding MTCA Method A unrestricted land use soil cleanup levels. Based on the results of the investigation, no further site characterization is recommended at this time.

Closing

We trust this report meets your needs at this time and appreciate the opportunity to provide our consulting services to you. Please contact the undersigned at (425) 449-4704 if you have any questions or require additional information.

Sincerely,

EARTH SOLUTIONS NW, LLC



Kyler T. Kelly, L.G.
Project Geologist



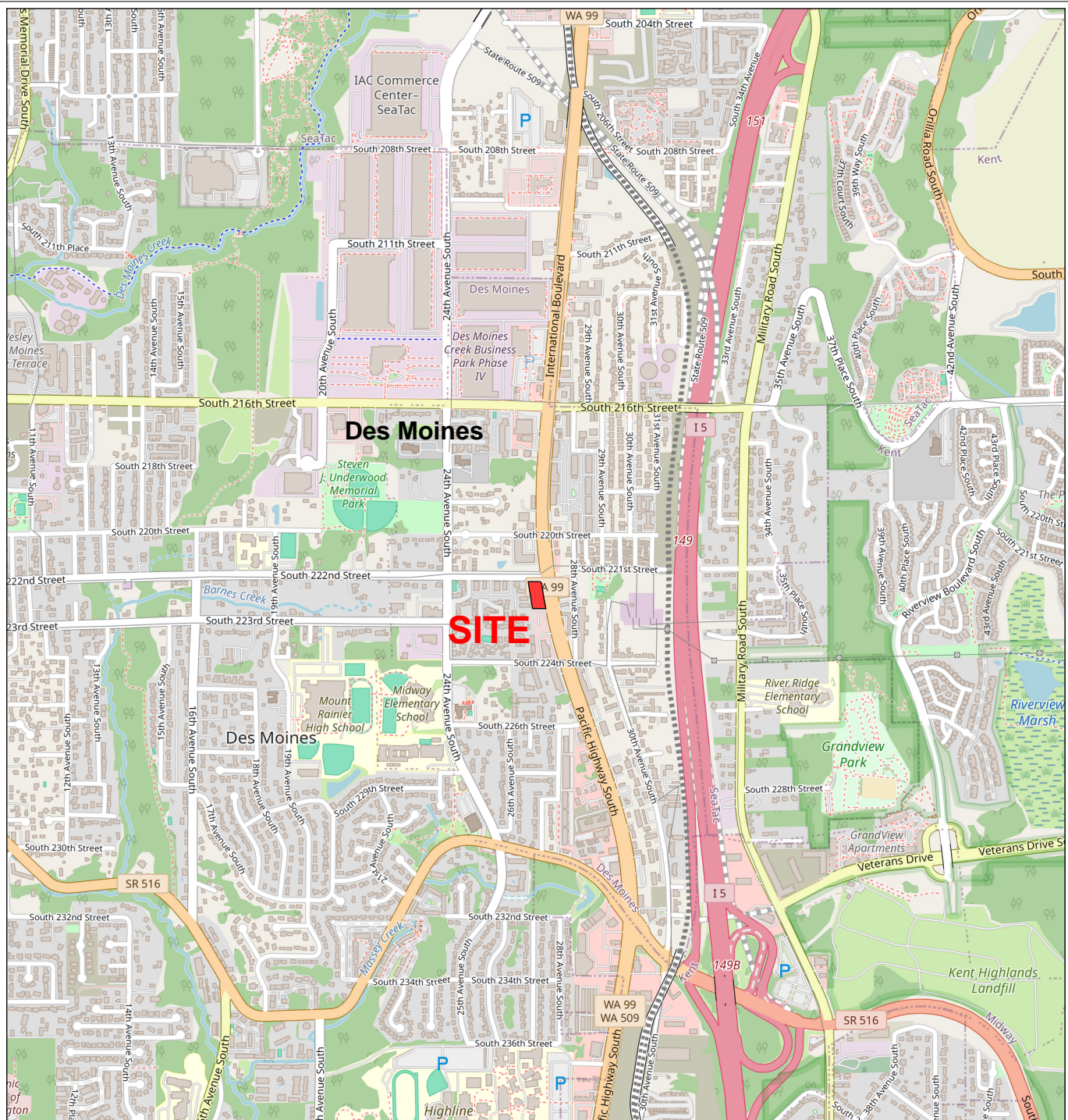
Ted W. Sykes
Environmental Senior Project Manager



Kyle R. Campbell, P.E.
Senior Principal Engineer

Attachments: Plate 1 – Vicinity Map
Plate 2 – Confirmatory Soil Sample Location Plan
ESNW's Confirmatory Soil Sample Laboratory Analytical Report and Chain-Of-Custody Documentation

cc: Foushee
Attention: John Dolence



Reference:
King County, Washington
OpenStreetMap.org



Earth Solutions NW LLC

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

Vicinity Map Laborers Local 242 Training Bldg Des Moines, Washington

NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.

Drawn MRS	Date 04/30/2024	Proj. No. 8574.05
Checked KTK	Date April 2024	Plate 1

S. 222ND STREET

Undeveloped
Overgrown
Area

PACIFIC HIGHWAY S. (99)

PACIFIC HIGHWAY S. (99)

Sidewalk - N

Base - 1

Sidewalk - S

~5'

~5'

LEGEND



Subject Site



Asphalt/Concrete



Approximate Location of
Arsenic and Lead Impacted
Area

x

Approximate Location of
Confirmatory Soil Samples

NORTH



NOT - TO - SCALE

NOTE: The graphics shown on this plate are not intended for design purposes or precise scale measurements, but only to illustrate the approximate test locations relative to the approximate locations of existing and / or proposed site features. The information illustrated is largely based on data provided by the client at the time of our study. ESNW cannot be responsible for subsequent design changes or interpretation of the data by others.

NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.



Earth Solutions NW_{LLC}

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

Confirmatory Soil Sample Location Plan Laborers Local 242 Training Bldg Des Moines, Washington

Drawn MRS

Date 04/30/2024

Proj. No. 8574.05

Checked KTK

Date April 2024

Plate 2



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 3, 2024

Kyler Kelly
Earth Solutions NW, LLC
15365 NE 90th Street, Suite 100
Redmond, WA 98052

Re: Analytical Data for Project ES-8574.05
Laboratory Reference No. 2404-022

Dear Kyler:

Enclosed are the analytical results and associated quality control data for samples submitted on April 2, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 3, 2024
Samples Submitted: April 2, 2024
Laboratory Reference: 2404-022
Project: ES-8574.05

Case Narrative

Samples were collected on April 2, 2024 and received by the laboratory on April 2, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: April 3, 2024
 Samples Submitted: April 2, 2024
 Laboratory Reference: 2404-022
 Project: ES-8574.05

**TOTAL METALS
 EPA 6010D**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		Sidewall-N				
Laboratory ID:		04-022-01				
Arsenic	ND	11	EPA 6010D	4-2-24	4-3-24	
Lead	45	5.6	EPA 6010D	4-2-24	4-3-24	

Client ID:		Sidewall-S				
Laboratory ID:		04-022-02				
Arsenic	ND	11	EPA 6010D	4-2-24	4-3-24	
Lead	48	5.6	EPA 6010D	4-2-24	4-3-24	

Client ID:		Base-1				
Laboratory ID:		04-022-03				
Arsenic	ND	11	EPA 6010D	4-2-24	4-3-24	
Lead	50	5.5	EPA 6010D	4-2-24	4-3-24	



Date of Report: April 3, 2024
 Samples Submitted: April 2, 2024
 Laboratory Reference: 2404-022
 Project: ES-8574.05

**TOTAL METALS
 EPA 6010D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0402SM1					
Arsenic	ND	10	EPA 6010D	4-2-24	4-3-24	
Lead	ND	5.0	EPA 6010D	4-2-24	4-3-24	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-398-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Lead	64.3	68.1	NA	NA	NA	6	20	

MATRIX SPIKES

Laboratory ID:	03-398-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	94.7	95.4	100	100	ND	95	95	75-125	1	20
Lead	284	309	250	250	64.3	88	98	75-125	8	20



Date of Report: April 3, 2024
Samples Submitted: April 2, 2024
Laboratory Reference: 2404-022
Project: ES-8574.05

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
Sidewall-N	04-022-01	10	4-2-24
Sidewall-S	04-022-02	11	4-2-24
Base-1	04-022-03	10	4-2-24





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference






Chain of Custody

Page 1 of 1

Company:	Earth Solutions NW, LLC
Project Number:	ES-8574.05
Project Name:	Laborers Local 242
Project Manager:	Kyle Kelly
Sampled by:	" "

Turnaround Request (in working days)	
(Check One)	
<input type="checkbox"/> Same Day	<input checked="" type="checkbox"/> 1 Day
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days
<input type="checkbox"/> Standard (7 Days)	
<input type="checkbox"/>	_____ (other)

[illegible]Laboratory Number: 04-022[illegible]

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		ESNW	4/2/24	13:22	
Received	Nichelle Ziffer	CSE	4/2/24	13:22	
Relinquished					
Received					
Relinquished					
Received					
			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>		
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>