



**T O X I C I T Y   C H A R A C T E R I S T I C  
L E A C H I N G   P R O C E D U R E**

**PREPARED FOR:**

City of Omaha  
4911 South 25<sup>th</sup> Street  
Omaha, NE 68107

**PROJECT LOCATION:**

Residential Property  
[REDACTED]  
Omaha, Nebraska 68107

Project Date(s): November 20, 2023

Report Date: December 12, 2023

Atlas Project ID: 204BS06562

Atlas Technical Consultants LLC  
11117 Mockingbird Drive  
Omaha, Nebraska 68137



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Omaha, Nebraska 68137  
[www.oneatlas.com](http://www.oneatlas.com)

December 12, 2023

Mr. Tom Roza  
City of Omaha Planning Department  
4911 South 25<sup>th</sup> Street  
Omaha, NE 68107

Re: Toxicity Characteristic Leaching Procedure  
[REDACTED]  
Omaha, Nebraska 68107  
Atlas Project Number: 204BS06562

Mr. Roza:

Atlas Technical Consultants LLC (Atlas) is pleased to submit the attached Toxicity Characteristic Leaching Procedure report for RCRA 8 metals conducted at the above-referenced site.

Atlas appreciates the opportunity to perform these services for the City of Omaha, and we look forward to working with you in the future. If you need any assistance with the implementation of the recommendations contained in this report, please feel free to contact us and we will respond promptly to your needs.

Sincerely,

**ATLAS TECHNICAL CONSULTANTS LLC**

A handwritten signature in black ink that reads "Chase Bucknell".

Chase Bucknell  
Environmental Scientist

A handwritten signature in blue ink that reads "Jim Pagel".

Jim Pagel  
Sr. Client Services Manager

# T A B L E O F C O N T E N T S

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# TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Residential Property

██████████  
Omaha, Nebraska 68107

Atlas Project Number: 204BS06562

## 1.0 SCOPE OF SERVICES

To provide information on potential removal and disposal options, Atlas was requested to perform Toxicity Characteristic Leaching Procedure (TCLP) on the potential waste stream that may be impacted by lead-contaminated soils at the target property.

## 2.0 SAMPLING

On November 20, 2023, Atlas collected a composite sample of soil and slag material from the presumed waste stream for TCLP lead analysis. The hazardous waste criteria is established under RCRA, Subtitle C, for each of the 8 RCRA metals.

The sample was collected by inspector Chase Bucknell of Atlas and the samples were delivered to Schneider Laboratories Global, Inc. located in Richmond, Virginia.

## 3.0 REGULATORY REVIEW

Waste disposal is governed by the USEPA Resource Conservation and Recovery Act (RCRA). These rules govern whether a waste material can be disposed of as a solid waste or hazardous waste. Solid wastes include general construction debris and are subject to minimum handling, transportation, and landfill disposal requirements under the USEPA RCRA regulations.

Hazardous wastes, including certain lead-containing materials, are subject to restrictions designed to prevent the hazardous materials from entering the environment. RCRA 8 metals waste is classified as hazardous or non-hazardous based on the results of TCLP testing. If the results of the TCLP analysis are at or above this level, the waste must be handled, transported and disposed as a hazardous waste in an approved waste, reclamation or incinerator site.

## 3.0 CONCLUSIONS AND RECOMMENDATIONS

The TCLP analytical results indicated that **lead was detected above** the EPA regulatory limit (5.0 mg/L). All other metals were below the regulatory limits. A copy of the laboratory analysis reports is included in Appendix B.

#### **4.0 ASSUMPTIONS AND LIMITATIONS**

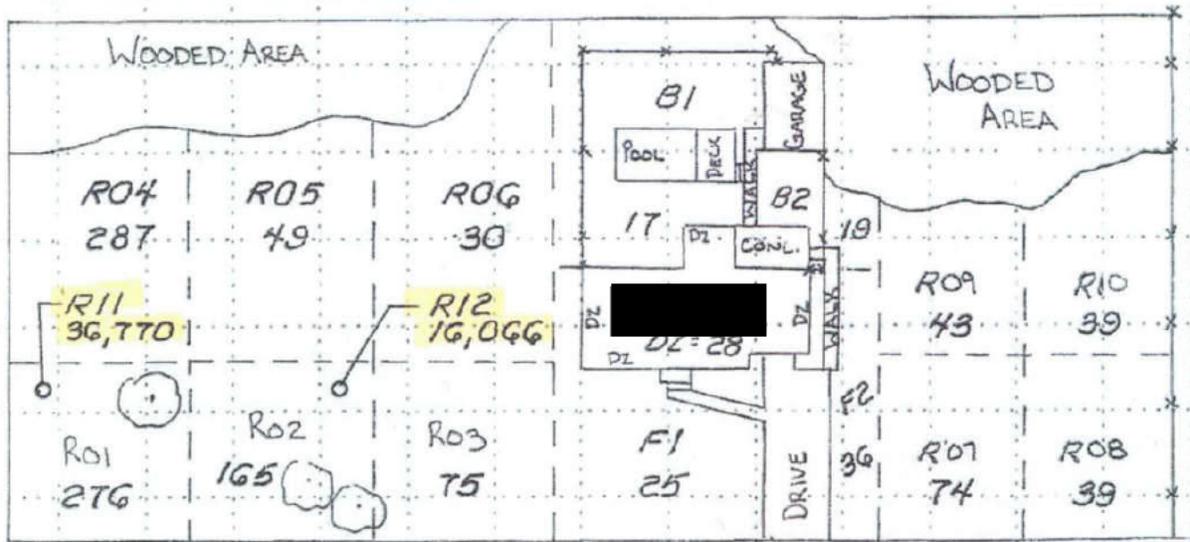
The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during the November 20, 2023, Atlas inspection of the site located at [REDACTED] in Omaha, Nebraska.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is intended for the sole use of the City of Omaha. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

APPENDIX A  
SITE MAP





Composite TCLP location

APPENDIX B

LABORATORY ANALYTICAL REPORT



**Customer:** ATC Group Services LLC (4661)  
**Address:** 8246 Marshall Drive  
Lenexa, KS 66214

**Order #:** 540928

**Matrix** Bulk  
**Received** 11/22/23  
**Reported** 11/27/23

**Attn:**  
**Project:** City Omaha  
**Location:** ██████████ Omaha NE  
**Number:** 204BS06562

**PO Number:** 204BS06562

Sample ID	Cust. Sample ID	Location	Result	RL*	Units	Analysis Date	Analyst
Parameter		Method					
540928-001	TCLP01	Soil And Slag Material					
<b>Metals Analysis</b>							
Arsenic		EPA 6010D / 1311	0.177	0.0800	mg/L	11/27/23	DM
Barium		EPA 6010D / 1311	1.51	0.0800	mg/L	11/27/23	DM
Cadmium		EPA 6010D / 1311	<0.0800	0.0800	mg/L	11/27/23	DM
Chromium		EPA 6010D / 1311	<0.200	0.200	mg/L	11/27/23	DM
Lead		EPA 6010D / 1311	17.3	0.800	mg/L	11/27/23	DM
Mercury		EPA 7470A / 1311	<0.0005	0.0005	mg/L	11/27/23	TM
Selenium		EPA 6010D / 1311	<0.0800	0.0800	mg/L	11/27/23	DM
Silver		EPA 6010D / 1311	<0.0800	0.0800	mg/L	11/27/23	DM

540928-11/27/23 04:46 PM

Reviewed By: **Ahmed Elnasseh**  
Analyst

### EPA TCLP Regulatory Limits

Parameter	Reg. Limit	Unit
Arsenic	5.00	mg/L
Barium	100	mg/L
Cadmium	1.00	mg/L
Chromium	5.00	mg/L
Lead	5.00	mg/L
Mercury	0.200	mg/L
Selenium	1.00	mg/L
Silver	5.00	mg/L

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and \*Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results apply to the sample as received.



**SCHNEIDER LABORATORIES GLOBAL, INC.**

2512 West Cary Street, Richmond, Virginia 23220-5117  
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475  
 www.slabin.com • info@slabin.com

**540928**

V:1540\540928

dparker 11/22/2023 9:59:52 AM  
 Federal Express 774175241144

Submitting Co.	Atlas (ATC Group Services)	State of Collection	NE	Cert. Required.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8246 Marshall Drive		Acct #	4661	Phone	402-501-9203
Lenexa, KS 66214		Email	jim.pagel@oneatlas.com		
Project Name	City Omaha	PO #	204BS06562		
Project Location	██████████ Omaha NE	Special Instructions: 10 day TAT requested questions contact Jim Pagel, 402-618-5323			
Project Number	204BS06562				
Collected By	Chase Bucknell				

Turn Around Time**	Matrix	Tests/Analytes (Select ALL that Apply) Blank spaces are for additional analytes			
<input type="checkbox"/> 2 Hour * <input type="checkbox"/> Same day * <input type="checkbox"/> 1 business day <input type="checkbox"/> 2 business days <input type="checkbox"/> 3 business days <input type="checkbox"/> 5 business days <small>* not available for all tests            ** past 3 PM the TAT will begin next business day            Please schedule rush tests in advance</small>	<input type="checkbox"/> Air <input type="checkbox"/> Paint <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Wipe <input type="checkbox"/> Bulk <input type="checkbox"/> Waste Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Drinking Water <input type="checkbox"/> TSP / PM10 <input type="checkbox"/> _____	<b>Asbestos in Bulk</b>	<b>Metals Total</b>	<b>TCLP</b>	<b>Microbiology</b>
		<input type="checkbox"/> PLM <input type="checkbox"/> PLM Qualitative <input type="checkbox"/> 400 Point Count <input type="checkbox"/> 1000 Point Count <input type="checkbox"/> Gravimetric Prep	<input type="checkbox"/> Lead <input type="checkbox"/> RCRA 8 Metals <input type="checkbox"/> Chromium VI <input type="checkbox"/> Mercury <input type="checkbox"/> _____	<input type="checkbox"/> Lead <input checked="" type="checkbox"/> RCRA 8 Metals <input type="checkbox"/> Full TCLP <small>(w/ organics 10 Day)</small>	<input type="checkbox"/> BACT (MPN/PA) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/> Allergens
		<b>Asbestos in Air</b>	<b>Gravimetric</b>	<b>Miscellaneous</b>	<b>Sub-Contract</b>
		<input type="checkbox"/> PCM <input type="checkbox"/> PCM-B Rules	<input type="checkbox"/> Total Dust NIOSH 0500 <input type="checkbox"/> Resp. Dust NIOSH 0600	<input type="checkbox"/> Silica FTIR (7602) <input type="checkbox"/> _____	<input type="checkbox"/> TEM Chatfield <input type="checkbox"/> TEM AHERA <input type="checkbox"/> TEM 7402 <input type="checkbox"/> Silica XRD (7500)

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, Bldg, Material, Type <sup>1</sup> )	Wipe Area	Time <sup>2</sup>		Flow Rate <sup>3</sup>		Total Air <sup>4</sup>
					Start	Stop	Start	Stop	
TCLP01	11/20/23	11:00	Soil and slag material						

For Aqueous and Solid samples ensure enough sample is sent for duplicate and spike analysis

<sup>1</sup>Type: A=Area, B=Blank, P=Personal, E=Excursion <sup>2</sup>Beginning/End of Sample Period <sup>3</sup>Liters/Minute <sup>4</sup>Volume in Liters [time in min x flow in L/min]

Relinquished By: Chase Bucknell Signature: *Chase Bucknell* Date/Time: 11/22/2023

**! ALL SHADED FIELDS MUST BE FILLED TO AVOID DELAYS !**

APPENDIX C  
INSPECTOR ACCREDITATIONS

# State of Nebraska

Department of Health and Human Services  
Division of Public Health

Chase J Bucknell  
Lead Abatement Inspector

License #: 61  
Status: Active

Expiration: 06/27/2025

