



July 17, 2019

Mr. Paul Grittner, Contaminated Material Management Specialist
Wisconsin Department of Natural Resources
Remediation and Development
PO Box 7921
Madison, WI 53707-7921

**Re: NR 718 Application - Soil Waste Management Plan
Rock River Sediment Removal Project
Janesville, Wisconsin
BRRTS Activity # 02-54-577951**

Dear Mr. Grittner:

Please find enclosed application and attached summary table of the analytical results of the dry sediment samples collected during the Rock River dredging project thus far. These results were compared to the residual contamination levels (RCLs) and meet applicable requirements for beneficial re-use and, in some cases, unrestricted fill material. An Amended Soil Management Plan, and a copy of the laboratory reports are also included in this submittal.

EAG is proposing that the dredged sediment be reused to grade a small area within the former JATCO for positive drainage and be re-vegetated, reducing the paved surface area in the northern portion of that parcel. Soils will be utilized as fill material (with continuing obligations, as applicable) at the final reuse location shown on the attached aerial map.

A 2-foot thick engineered barrier or "cap" consisting of uncontaminated "clean" soil material will be placed on top of the fill area to isolate the impacted soils. The native soils were sampled and analyzed to demonstrate no impacts for unrestricted use as a cover material. Vegetation (native grasses) will be established as a final surface feature. The proposed area is slightly over an acre and a separate Notice of Intent for Construction was filed on-line last week.

A copy of the most recent land use concept shared with the City of Janesville is also attached. Land use concept planning is still a work in process and final uses/topographic elevations and associated land uses have not yet been fully designed.

Your review and approval of this application is requested. If you have any questions, please contact me at 314-835-2814 or by email at ddunn@enviroanalyticsgroup.com.

July 17, 2019

Sincerely,



Daniel M. Dunn
VP - Director of Remediation
EnviroAnalytics Group, LLC
1515 Des Peres Rd, Suite 300
St. Louis, MO 63131

cc: Bill Fitzpatrick, PE

Enclosures:

- Aerial site plan with fill location
- Summary table of lab data – dried sediment-soil
- Amended Soil Management Plan (w/cover maintenance plan)
- Land use / zoning plan
- Test America Analytical reports

Area of Disturbance

544 Kellogg Ave

Google Earth

© 2018 Google

- Legend
- 544 Kellogg Ave
 - Feature 1
 - Feature 2
 - Feature 3
 - Lisa Pizzeria
 - Marquette Park
 - Northland Equipment Co Inc
 - Pick 'n Save
 - RDP Oilmart
 - Shockwave Video
 - Untitled Polygon

Former GM Assembly plant

300 ft
200 ft

Sediment-Soil
Fill Area

2-3 ft
cover
4-5 ft
fill

Fill Area Cross-Section

NR 718 Beneficial Re-use exemption Request
Rock River dredging Project
Fill Location - JATCO Site
544 Kellogg
Janesville, WI

JATCO property
former GM Haul-Away-Yard

544 Kellogg Ave

900 ft



AMENDED SOIL MANAGEMENT PLAN

ROCK RIVER SEDIMENT REMOVAL PROJECT

JANESVILLE, WISCONSIN

BRRTS Activity # 02-54-577951

Prepared For:

JAINES, LLC

1650 DesPeres Rd., Suite 303

St. Louis, MO 63131

Prepared By:



1515 Des Peres Rd, Suite 300

St. Louis, MO 63131

(314)835-1515

July 2019

BACKGROUND

The Former General Motors (GM) Assembly Plant (the Site) located in Janesville (Rock County), Wisconsin has been assigned WDNR Bureau for Remediation and Redevelopment Tracking System (BRRTS) Number (#) 02-54-577951. The property is currently zoned as M2 – General Industrial. The Site contains sediments impacted by contaminants of potential ecological concern (COPECs), including polycyclic aromatic hydrocarbons (PAHs), lead, mercury, and polychlorinated biphenyls (PCBs), that were identified near the Adjacent Outfall where storm water from the former GM plant discharged to the Rock River north of the substation along Delavan Drive in Janesville. Information regarding the sedimentation in this reach of the Rock River was initially reported in studies completed for the City as part of the Monterey Dam demolition planning (Inter-Fluve, Inc., 2015). Multiple site investigations and evaluations were subsequently conducted by GM as documented in the *Sediment Investigation Report* (GHD Report No. 21, May 2016), the *Rock River Site Investigation Report* (GHD Report No. 30, May 2017), and the *Remedial Action Options Report* (GHD Report No. 32, May 2017). Multiple lines of evidence from comprehensive studies of sediment quality impacts on local biological receptors were evaluated utilizing statistical methods and consensus-based guidance to assess potential ecological and human health exposure risks.

Sediments near the Adjacent Outfall are impacted by contaminants of potential ecological concern (COPECs), including PAHs, lead, mercury, and PCBs. Storm water from the former GM plant discharged to the Rock River via this outfall north of the substation along Delavan Drive. The RADR mitigates impacts near the outfall based upon the evaluation of potential risks to sediment-dwelling benthic invertebrates. It should be noted that GM reported no records of releases to stormwater and the contaminants identified near the outfall may have originated from other sources and not solely from historical GM operations. This document outlines the Soil Management Plan for the sediments that are to be removed during the dredging activities.

The RADR presented the project approach and objectives for removal of approximately 10,000 cubic yards of impacted sediment from a designated remedial action area (RAA) covering approximately two acres within the Rock River in the pool upstream from the Monterey Dam. Impacted sediment within the remedial action area shall be removed to refusal or one foot below the design surface, and a certified clean fill sand restorative layer placed over the RAA upon completion of the project.

The project includes hydraulically and/or mechanically dredging the impacted sediment and hydraulic conveyance of the sediment / river water slurry to the former GM plant for dewatering and treatment. The sediment slurry will be conveyed through a floating hose to temporary piping installed through the box culvert at the outfall and leading back to the diversion chamber located south of Delevan Drive at the former GM Site. The granular solids within the slurry will be removed by settling and discharged across a drying bed. The fluids containing fine-grained particles (concentrator supernatant) will be pumped into the large steel tank (#1) for additional solids removal by settling that may include polymerization. The water fraction will be pumped into the return water tank (#2). A fraction of the settled solids containing fine particles and organic matter will be filtered through geotextile tubes, with the effluent captured and recirculated to the settling tank.

Once removed from the drying bed, solids will be placed into segregated stockpiles located on concrete or asphalt and monitored using the paint-filter liquids test (PFLT) by ASTM 9095B, slump test, and/or field moisture content by the microwave method using paper cups. Once sufficiently dewatered for handling, dried sediments (i.e., soil) will be characterized for beneficial re-use onsite or final disposal offsite, in accordance with the Sampling and Analyses Plan and the Soil Management Plan described below. Five-point composite samples will be collected from each 500-cubic yard stockpile. Samples will be submitted to the laboratory and analyzed for the total concentrations of PAHs, PCBs, and metals. In addition, the water leach extraction procedure (ASTM Method 3987) will be followed and leachate analyzed for PAHs, PCBs, and metals. Initially, analytical results were requested on a rush turnaround time, typically 3-5 days (versus normal TAT of 10 days). The results are compared to the industrial RCLs and transmitted to DNR upon receipt along with EAG's management path for the material.

TCLP data that was provided in the General Motors Site Investigation that provides screening for the non-hazardous categorization of the sediment. Analytical results of the sediment samples obtained during the General Motors Site Investigation that were previously submitted to the WDNR are also attached.

The dredging activities are anticipated to be complete and dried sediments ready to move by the end of July, 2019 or sooner.

MANAGEMENT OF CONTAMINATED SOIL OR SOLID WASTES RECOVERED DURING REMEDIAL (RESPONSE) ACTIONS

It is requested that an exemption be granted in order to store and manage the dry sediment generated from this remedial action at the site which is not an operating licensed landfill (NR718.15). The Wisconsin DNR recommended format for exemption request is attached to this document. The information requested in Sections 3, 4, 5, 6, 8, 9, and 10 are included in this Soil Waste Management Plan.

STORAGE OF EXCAVATED CONTAMINATED SOIL

The dried sediment will be removed from the drying bed and stored within the sand stockpile dividers and characterized. Results of laboratory analyses will determine disposition for:

1. segregation, solidification and temporary storage before transportation and disposal offsite (complete with an impervious liner),
2. onsite transportation to the identified fill area to be capped with uncontaminated soil and revegetated, and
3. stockpiled in an area of remedial operations for future beneficial reuse onsite

The final reuse locations are detailed on the attached Figures. A decision diagram is included. Efforts are being made to continuously characterize and reuse or dispose of material as it is being generated per the decision diagram.

In accordance with NR 718.05 (2), none of the stockpile or final reuse locations are within a flood plain. These locations are more than 100-feet from a wetland, 300-feet from a navigable river, stream, lake, pond, or flowage, and more than 300-feet from any water supply well. All stockpile and final reuse

locations are more than 400-feet from the Rock River. Signs will be posted in the areas around the drying beds that will include the name, address, and phone number of the owner or operation, the types of hazardous substances on the property, the WDNR issued site ID number, and the anticipated removal date.

The dried sediment will be placed in the sand stockpile dividers on an impervious base (concrete pavement). The slope of the pavement beneath the sand stockpile dividers drains to an existing stormwater inlet manhole that will be plugged to serve as a sump and pumped back into treatment Tank #1 to control surface water runoff. These soil piles will be covered at the end of each day.

Samples of the dried sediment within the sand stockpile dividers (approximately 500 cubic yard piles) will be collected and analyzed per the Sampling and Analyses Plan. Samples are collected from the first 100, 300 and 500 cys, and then every 500 cys thereafter. Samples are analyzed for the COPEC identified during the Rock River sediment investigation and compared to the industrial land use RCLs. The final reuse location for each stockpile will be determined based on the reported total concentrations and the concentrations in the water leach test procedure. A decision diagram is included with this Soil Management Plan.

Analytical results were compared to the appropriate industrial land use concentrations to ensure that the soils for beneficial reuse are protective of public health, safety, welfare and the environment. Soil sampling will demonstrate that the contaminated soil does not attain or exceed the applicable Wis. Admin. Code § NR 720 soil cleanup standards for industrial land use classification for both direct contact and the groundwater migration pathways. Soil sampling and location of placement of contaminated soil will not result in an attainment or exceedance of groundwater quality standards in Wis. Stats. § 160 and Wis. Admin. Code § NR 140. Sampling will verify that no vapor intrusion would result from the placement of the contaminated soil and that all other pathways of concern at the site or facility (e.g. surface water and sediment) are protective of public health, safety, welfare and the environment.

Soil with concentrations of COPCs that are not protective of human health and the environment as described above will be placed on plastic sheeting in the waste piles, solidified, permitted as non-hazardous waste, and offsite transportation to an appropriate disposal facility arranged. Manifests for the transportation and disposal of this material will be maintained by EAG and copies submitted to the WDNR with each weekly report.

The only storage pile that is anticipated to remain for more than 30 days is the stockpile to the west of the dewatering operations (see Figure 3). This stockpile will be covered, and periodically inspected for erosion and storm water controls. WDNR will also be notified if a soil stockpile will remain on site for more than 90 days.

No transportation or treatment, other than transporting impacted soils to an appropriate offsite facility or to the designated final onsite reuse locations onsite is anticipated.

Native soils at the receiving location onsite are generally fill material on top of clayey-silt and silty sand. Groundwater occurs deeper than 10 feet bgs. Groundwater flow is generally to the north-northwest toward the Rock River, which follows the general Site topography.

Any continuing obligations for maintenance beyond industrial land use and groundwater use restrictions will be identified in the remedial action completion report. A copy of the property deed with legal descriptions of the parcel(s) is attached to this document.

REPORTING

A report will be submitted to the WDNR on a weekly basis. This report will detail the volume of material recovered, the laboratory results for the samples, a comparison of results to the industrial soil residual concentration levels including vapor intrusion, dermal contact, soil-to-groundwater, and the groundwater standard (water leach test procedure) per Wisconsin Admin Code NR720. This report will also detail the final reuse location for each stockpile based on the analytical results, comparisons to industrial standards, and the decision diagram included in this Soil Management Plan.

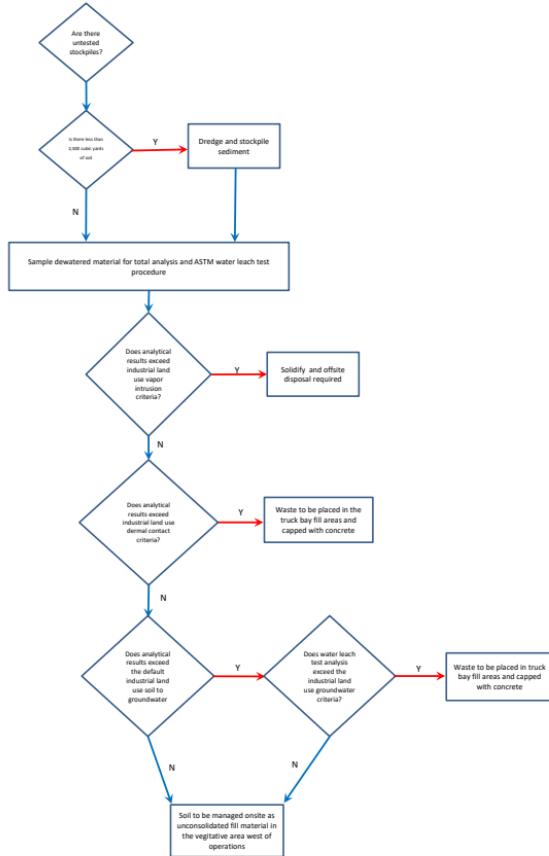
The weekly report will contain the following items for review and concurrence:

- Laboratory Reports
- Summary of Results
- Comparisons of Results to Industrial RCLs
- Final placement of soil

CONTINUING OBLIGATIONS

The site zoning will be maintained as industrial land use and the concrete cap that will be installed above the material placed in the truck bay fill areas will be inspected regularly and repaired as needed to ensure the integrity of the concrete.

SOIL WASTEMANAGEMENT PLAN - DECISION DIAGRAM
1000 GENERAL MOTORS DRIVE
JANESVILLE, WISCONSIN



COVER MAINTENANCE PLAN

July 17, 2019

Property Located at:

1000 General Motors Drive and 544 Kellogg Ave.
Janesville, Wisconsin 53546

BRRTS Activity #02-54-577951 / #02-54-56081

Introduction

This document is the Maintenance Plan for a soil cover at the above-referenced property in accordance with the requirements of s. NR 724.13 (2), Wis. Adm. Code. The maintenance activities relate to the soil cover which addresses or occupies the area over the contaminated soil.

More site-specific information about this property/site may be found in:

- The case file in the DNR office
- At <http://dnr.wi.gov/topic/Brownfields/wrrd.html>, which includes:
 - BRRTS on the Web (DNR's internet based data base of contaminated sites)for the link to a PDF for site-specific information at the time of closure and on continuing obligations;
 - RR Sites Map for a map view of the site, and
- The DNR project manager for Rock County.

Descriptions

Description of Contamination

This material is dried sediment/soil that was removed from the Rock River, dewatered, and approved for beneficial reuse on the former General Motors Assembly Plant property. The locations where this material was placed as soil on the site is shown on the attached map. The material contains residual concentrations of polycyclic aromatic hydrocarbons (PAHs) and trace metals. The material was placed and compacted at a depth from 2-feet below the surface to approximately 6-feet below grade.

Description of the Cover to be Maintained

The cover consists of approximately 2-feet of top soil with a vegetative cover. The cover area is approximately 200-wide and 300-feet long. The material that was removed via dredging operations and was approved for beneficial reuse on the site. The location of the area where the solid waste will be managed is presented on the attached map.

Cover Purpose

The soil cover (uncontaminated native on-site soil) over the dried sediments-soil material conservatively serves as an engineered barrier to prevent direct human contact with residual contamination. Note that analytical results indicate that soil does not pose a threat to human health through direct contact. The current and anticipated future land use of the property is industrial-commercial. The cover will function as intended unless disturbed. A native stabilization mix for vegetation will be mixed. The table below specifies the species and

rates of seeding by mass are required (9 PLS lb/acre):

Scientific Name	Common Name	Rate (Oz./Acre)
Grasses, sedges		
Lolium multiflorum	Annual rye	15 LB/Acre
Elymus virginicus	Virginia Wild Rye	20.00
Carex comosa	Bristly Sedge	10.00
Sorghastrum nutans	Indian Grass	10.00
Spartina pectinata	Prairie Cordgrass	10.00

Annual Inspection

The cover overlying the contaminated soil will be inspected periodically and a minimum of once a year. The inspection will normally occur in the spring after all snow and ice is gone, for deterioration, erosion, settlement, and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner and is included as D.4, Form 4400-305, Continuing Obligations Inspection and Maintenance Log. A copy of this log is attached. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the maintenance plan and inspection log will be kept at the site; or, if there is no acceptable place (for example, no building is present) to keep it at the site, at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources (DNR) representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and make sure they use appropriate personal protection equipment (PPE). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the cover overlying the contaminated soil is removed or replaced, the replacement barrier must be of equal functionality. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the DNR or its successor.

The property owner, in order to maintain the integrity of the soil cover will maintain a copy of this Maintenance Plan at the site; or, if there is no acceptable place to keep it at the site (for example, no building is present), at the address of the property owner and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover/Barrier

If removal, replacement or other changes to a cover, or a building which is acting as a cover, are considered, the property owner will contact DNR at least 45 days before taking such an action, to determine whether further action may be necessary to protect human health, safety, or welfare or the environment, in accordance with s. NR 727.07, Wis. Adm. Code.

The following activities are prohibited on any portion of the property where soil cover is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; 6) construction or placement of a building or other structure; 7) changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of DNR.

Contact Information

July 2019

Site Owner and Operator: Jaines, LLC
Michael Roberts, Member
Thomas Roberts, Member
1515 Des Peres Road, Suite 300
St. Louis, Missouri 63131
314-835-1515

Signature: _____

Consultant: EnviroAnalytics Group, LLC
Attn: Daniel M. Dunn
1515 Des Peres Road, Suite 300
St. Louis, Missouri 63131
314-835-2814

DNR: Paul Grittner, Contaminated Material Management Specialist
Wisconsin Department of Natural Resources
101 South Webster Street
Box 7921
Madison, Wisconsin 53737-7921
608-266-0941

Location Map

See attached detailing the limits of disturbance and the area of the soil cover to be maintained.

Photographs of Cover

Photographs will be added to this maintenance plan once the dried sediment has been placed in the area and the soil cover established.

Continuing Obligations Inspection and Maintenance Log

Use DNR Fillable Form [Form 4400-305](#)

Continuing Obligations Inspection and Maintenance Log
Form 4400-305 (2/14)

Page 1 of 2

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetupBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name _____

BRRTS No. _____

Inspections are required to be conducted (see closure approval letter):

- annually
- semi-annually
- other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: _____			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: _____			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
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		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: _____			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other: _____			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

Continuing Obligations Inspection and Maintenance Log

Page 2 of 2

Form 4400-305 (2/14)

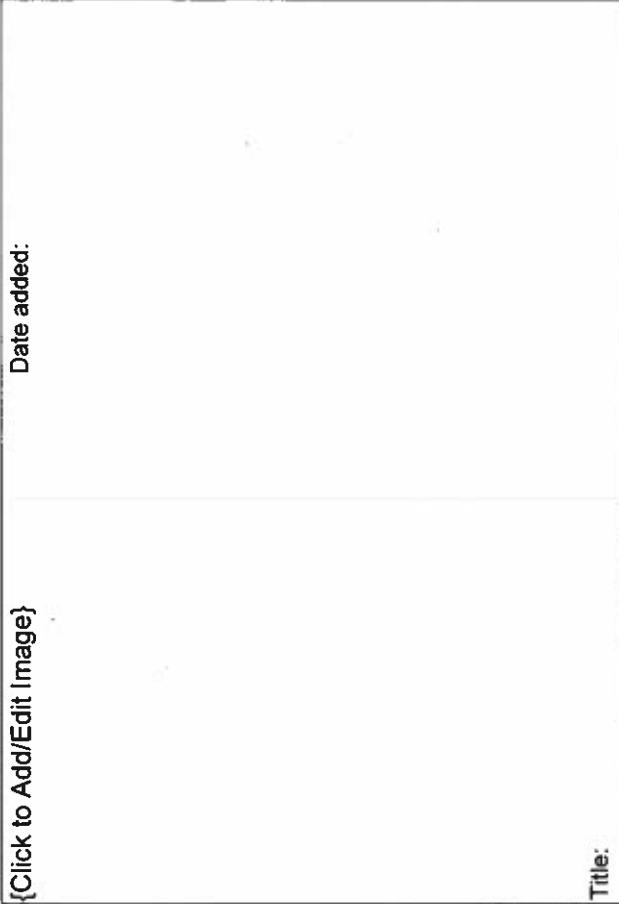
BRRTS No. _____ Activity (Site) Name _____

{Click to Add/Edit Image}

Title: _____ Date added: _____

{Click to Add/Edit Image}

Title: _____ Date added: _____





ANALYTICAL REPORT

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

Laboratory Job ID: 500-165506-2

Client Project/Site: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/10/2019 3:34:17 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Ask
The
Expert

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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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Case Narrative

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Job ID: 500-165506-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-165506-2

Comments

No additional comments.

Receipt

The samples were received on 6/21/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

Metals

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

General Chemistry

Method(s) 9056A: The CCV at line 41 in batch 493563 was outside acceptance limits(90-110%) for Fluoride at 111%rec. The associated samples were an MS/MSD that were within control limits. These samples were reported: (500-165506-A-3-C MS) and (500-165506-A-3-C MSD).

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

Detection Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-165506-2

Project/Site: Rock River Sediment Removal, Janesville

Client Sample ID: Solid Sample #1

Lab Sample ID: 500-165506-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.0		0.20	0.20	mg/L	1		6020A	ASTM Leach
Antimony	0.0090	J	0.050	0.0060	mg/L	1		6020A	ASTM Leach
Arsenic	0.0034	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Chromium	0.0081	J	0.025	0.0050	mg/L	1		6020A	ASTM Leach
Copper	0.0056	J	0.025	0.0050	mg/L	1		6020A	ASTM Leach
Iron	1.1		0.20	0.20	mg/L	1		6020A	ASTM Leach
Lead	0.028	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Manganese	0.012	J	0.025	0.0050	mg/L	1		6020A	ASTM Leach
Zinc	0.042	J	0.10	0.020	mg/L	1		6020A	ASTM Leach
Cyanide, Total	0.0067	J	0.010	0.0035	mg/L	1		9014	ASTM Leach
Chloride	0.30		0.20	0.17	mg/L	1		9056A	ASTM Leach
Fluoride	0.071	J	0.20	0.067	mg/L	1		9056A	ASTM Leach
Sulfate	4.1		0.20	0.095	mg/L	1		9056A	ASTM Leach

Client Sample ID: Solid Sample #2

Lab Sample ID: 500-165506-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.040	J	0.050	0.0060	mg/L	1		6020A	ASTM Leach
Arsenic	0.0049	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Lead	0.0073	J	0.050	0.0020	mg/L	1		6020A	ASTM Leach
Cyanide, Total	0.037		0.010	0.0035	mg/L	1		9014	ASTM Leach
Chloride	0.82		0.20	0.17	mg/L	1		9056A	ASTM Leach
Fluoride	0.085	J	0.20	0.067	mg/L	1		9056A	ASTM Leach
Sulfate	11		1.0	0.48	mg/L	5		9056A	ASTM Leach

Client Sample ID: Jatco Soil

Lab Sample ID: 500-165506-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.25		0.20	0.20	mg/L	1		6020A	ASTM Leach
Chloride	1.3		0.20	0.17	mg/L	1		9056A	ASTM Leach
Fluoride	0.074	J	0.20	0.067	mg/L	1		9056A	ASTM Leach
Sulfate	0.24		0.20	0.095	mg/L	1		9056A	ASTM Leach

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9056A	Anions, Ion Chromatography	SW846	TAL CHI
9066	Phenolics, Total Recoverable	SW846	TAL CHI
SM 4500 NO ₃ F	Nitrogen, Nitrate	SM	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI
D3987-85	ASTM Leaching Procedure	ASTM	TAL CHI
Distill/Phenol	Distillation, Phenolics	None	TAL CHI

Protocol References:

ASTM = ASTM International

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-165506-1	Solid Sample #1	Solid	06/20/19 00:00	06/21/19 09:20	
500-165506-2	Solid Sample #2	Solid	06/20/19 00:00	06/21/19 09:20	
500-165506-3	Jatco Soil	Solid	06/20/19 00:00	06/21/19 09:20	

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Client Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Solid Sample #1

Lab Sample ID: 500-165506-1

Matrix: Solid

Date Collected: 06/20/19 00:00

Date Received: 06/21/19 09:20

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.20	mg/L	07/03/19 08:55	07/03/19 17:11		1
Antimony	0.0090 J		0.050	0.0060	mg/L	07/03/19 08:55	07/03/19 17:11		1
Arsenic	0.0034 J		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:11		1
Barium	<0.050		0.50	0.050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Beryllium	<0.0020		0.0040	0.0020	mg/L	07/03/19 08:55	07/03/19 17:11		1
Boron	<0.050		0.10	0.050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Cadmium	<0.0010		0.0050	0.0010	mg/L	07/03/19 08:55	07/03/19 17:11		1
Chromium	0.0081 J		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Copper	0.0056 J		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Iron	1.1		0.20	0.20	mg/L	07/03/19 08:55	07/03/19 17:11		1
Lead	0.028 J		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:11		1
Manganese	0.012 J		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Molybdenum	<0.0050		0.050	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Nickel	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Selenium	<0.010		0.050	0.010	mg/L	07/03/19 08:55	07/03/19 17:11		1
Silver	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:11		1
Thallium	<0.0020		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:11		1
Zinc	0.042 J		0.10	0.020	mg/L	07/03/19 08:55	07/03/19 17:11		1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	07/03/19 10:15	07/05/19 08:29		1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0067 J		0.010	0.0035	mg/L	07/05/19 10:20	07/05/19 14:53		1
Chloride	0.30		0.20	0.17	mg/L			07/05/19 22:00	1
Fluoride	0.071 J		0.20	0.067	mg/L			07/05/19 22:00	1
Sulfate	4.1		0.20	0.095	mg/L			07/05/19 22:00	1
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L	07/08/19 07:45	07/08/19 10:03		1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Solid Sample #2

Date Collected: 06/20/19 00:00

Date Received: 06/21/19 09:20

Lab Sample ID: 500-165506-2

Matrix: Solid

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L	07/03/19 08:55	07/03/19 17:15		1
Antimony	0.040 J		0.050	0.0060	mg/L	07/03/19 08:55	07/03/19 17:15		1
Arsenic	0.0049 J		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:15		1
Barium	<0.050		0.50	0.050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Beryllium	<0.0020		0.0040	0.0020	mg/L	07/03/19 08:55	07/03/19 17:15		1
Boron	<0.050		0.10	0.050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Cadmium	<0.0010		0.0050	0.0010	mg/L	07/03/19 08:55	07/03/19 17:15		1
Chromium	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Copper	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Iron	<0.20		0.20	0.20	mg/L	07/03/19 08:55	07/03/19 17:15		1
Lead	0.0073 J		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:15		1
Manganese	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Molybdenum	<0.0050		0.050	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Nickel	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Selenium	<0.010		0.050	0.010	mg/L	07/03/19 08:55	07/03/19 17:15		1
Silver	<0.0050		0.025	0.0050	mg/L	07/03/19 08:55	07/03/19 17:15		1
Thallium	<0.0020		0.050	0.0020	mg/L	07/03/19 08:55	07/03/19 17:15		1
Zinc	<0.020		0.10	0.020	mg/L	07/03/19 08:55	07/03/19 17:15		1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	07/03/19 10:15	07/05/19 08:31		1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.037		0.010	0.0035	mg/L	07/05/19 10:20	07/05/19 14:53		1
Chloride	0.82		0.20	0.17	mg/L			07/05/19 22:12	1
Fluoride	0.085 J		0.20	0.067	mg/L			07/05/19 22:12	1
Sulfate	11		1.0	0.48	mg/L			07/05/19 22:24	5
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L	07/08/19 07:45	07/08/19 10:06		1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:43	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Jatco Soil

Lab Sample ID: 500-165506-3

Date Collected: 06/20/19 00:00

Matrix: Solid

Date Received: 06/21/19 09:20

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.25		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:19	1
Antimony	<0.0060		0.050	0.0060	mg/L		07/03/19 08:55	07/03/19 17:19	1
Arsenic	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Barium	<0.050		0.50	0.050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Beryllium	<0.0020		0.0040	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Boron	<0.050		0.10	0.050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/03/19 08:55	07/03/19 17:19	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Copper	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Iron	<0.20		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:19	1
Lead	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Manganese	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Molybdenum	<0.0050		0.050	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Nickel	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Selenium	<0.010		0.050	0.010	mg/L		07/03/19 08:55	07/03/19 17:19	1
Silver	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:19	1
Thallium	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:19	1
Zinc	<0.020		0.10	0.020	mg/L		07/03/19 08:55	07/03/19 17:19	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 08:32	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0035		0.010	0.0035	mg/L		07/05/19 10:20	07/05/19 14:53	1
Chloride	1.3		0.20	0.17	mg/L			07/05/19 22:37	1
Fluoride	0.074 J		0.20	0.067	mg/L			07/05/19 22:37	1
Sulfate	0.24		0.20	0.095	mg/L			07/05/19 22:37	1
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L		07/08/19 07:45	07/08/19 10:08	1
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:45	1

Eurofins TestAmerica, Chicago

Definitions/Glossary

Client: EnviroAnalytics Group LLC

Job ID: 500-165506-2

Project/Site: Rock River Sediment Removal, Janesville

Qualifiers

Metals

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.

General Chemistry

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.
%R	Listed under the "D" column to designate that the result is reported on a dry weight basis
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Metals

Leach Batch: 493088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	D3987-85	
500-165506-2	Solid Sample #2	ASTM Leach	Solid	D3987-85	
500-165506-3	Jatco Soil	ASTM Leach	Solid	D3987-85	
LB3 500-493088/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB3 500-493088/1-C	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 493241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	3010A	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	3010A	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	3010A	493088
LB3 500-493088/1-B	Method Blank	ASTM Leach	Solid	3010A	493088
LCS 500-493241/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 500-493241/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Prep Batch: 493266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	7470A	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	7470A	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	7470A	493088
LB3 500-493088/1-C	Method Blank	ASTM Leach	Solid	7470A	493088
MB 500-493266/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-493266/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 493500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	6020A	493241
500-165506-2	Solid Sample #2	ASTM Leach	Solid	6020A	493241
500-165506-3	Jatco Soil	ASTM Leach	Solid	6020A	493241
LB3 500-493088/1-B	Method Blank	ASTM Leach	Solid	6020A	493241
LCS 500-493241/2-A	Lab Control Sample	Total/NA	Solid	6020A	493241
LCSD 500-493241/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	493241

Analysis Batch: 493513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	7470A	493266
500-165506-2	Solid Sample #2	ASTM Leach	Solid	7470A	493266
500-165506-3	Jatco Soil	ASTM Leach	Solid	7470A	493266
LB3 500-493088/1-C	Method Blank	ASTM Leach	Solid	7470A	493266
MB 500-493266/12-A	Method Blank	Total/NA	Solid	7470A	493266
LCS 500-493266/13-A	Lab Control Sample	Total/NA	Solid	7470A	493266

General Chemistry

Leach Batch: 493088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	D3987-85	
500-165506-1	Solid Sample #1	ASTM Leach	Solid	D3987-85	
500-165506-2	Solid Sample #2	ASTM Leach	Solid	D3987-85	
500-165506-2	Solid Sample #2	ASTM Leach	Solid	D3987-85	
500-165506-3	Jatco Soil	ASTM Leach	Solid	D3987-85	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

General Chemistry (Continued)

Leach Batch: 493088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-3	Jatco Soil	ASTM Leach	Solid	D3987-85	
LB3 500-493088/1-A	Method Blank	ASTM Leach	Solid	D3987-85	
500-165506-3 MS	Jatco Soil	ASTM Leach	Solid	D3987-85	
500-165506-3 MSD	Jatco Soil	ASTM Leach	Solid	D3987-85	

Analysis Batch: 493464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	SM 4500 NO3 F	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	SM 4500 NO3 F	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	SM 4500 NO3 F	493088
LB3 500-493088/1-A	Method Blank	ASTM Leach	Solid	SM 4500 NO3 F	493088
MB 500-493464/28	Method Blank	Total/NA	Solid	SM 4500 NO3 F	
LCS 500-493464/29	Lab Control Sample	Total/NA	Solid	SM 4500 NO3 F	

Prep Batch: 493489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	9010C	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	9010C	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	9010C	493088
MB 500-493489/9-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-493489/10-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 493559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	9014	493489
500-165506-2	Solid Sample #2	ASTM Leach	Solid	9014	493489
500-165506-3	Jatco Soil	ASTM Leach	Solid	9014	493489
MB 500-493489/9-A	Method Blank	Total/NA	Solid	9014	493489
LCS 500-493489/10-A	Lab Control Sample	Total/NA	Solid	9014	493489

Analysis Batch: 493563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	9056A	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	9056A	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	9056A	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	9056A	493088
MB 500-493563/3	Method Blank	Total/NA	Solid	9056A	
LCS 500-493563/4	Lab Control Sample	Total/NA	Solid	9056A	
500-165506-3 MS	Jatco Soil	ASTM Leach	Solid	9056A	493088
500-165506-3 MSD	Jatco Soil	ASTM Leach	Solid	9056A	493088

Prep Batch: 493698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	Distill/Phenol	493088
500-165506-2	Solid Sample #2	ASTM Leach	Solid	Distill/Phenol	493088
500-165506-3	Jatco Soil	ASTM Leach	Solid	Distill/Phenol	493088
MB 500-493698/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 500-493698/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Eurofins TestAmerica, Chicago

QC Association Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

General Chemistry

Analysis Batch: 493761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165506-1	Solid Sample #1	ASTM Leach	Solid	9066	493698
500-165506-2	Solid Sample #2	ASTM Leach	Solid	9066	493698
500-165506-3	Jatco Soil	ASTM Leach	Solid	9066	493698
MB 500-493698/1-A	Method Blank	Total/NA	Solid	9066	493698
LCS 500-493698/2-A	Lab Control Sample	Total/NA	Solid	9066	493698

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QC Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-493241/2-A

Matrix: Solid

Analysis Batch: 493500

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Aluminum	2.00	1.91		mg/L	95	80 - 120		
Antimony	0.500	0.546		mg/L	109	80 - 120		
Arsenic	0.100	0.0980		mg/L	98	80 - 120		
Barium	0.500	0.500		mg/L	100	80 - 120		
Beryllium	0.0500	0.0469		mg/L	94	80 - 120		
Boron	1.00	1.05		mg/L	105	80 - 120		
Cadmium	0.0500	0.0504		mg/L	101	80 - 120		
Chromium	0.200	0.199		mg/L	100	80 - 120		
Copper	0.250	0.253		mg/L	101	80 - 120		
Iron	1.00	1.09		mg/L	109	80 - 120		
Lead	0.100	0.106		mg/L	106	80 - 120		
Manganese	0.500	0.539		mg/L	108	80 - 120		
Molybdenum	1.00	1.04		mg/L	104	80 - 120		
Nickel	0.500	0.513		mg/L	103	80 - 120		
Selenium	0.100	0.0978		mg/L	98	80 - 120		
Silver	0.0500	0.0523		mg/L	105	80 - 120		
Thallium	0.100	0.104		mg/L	104	80 - 120		
Zinc	0.500	0.489		mg/L	98	80 - 120		

Lab Sample ID: LCSD 500-493241/3-A

Matrix: Solid

Analysis Batch: 493500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
Aluminum	2.00	1.90		mg/L	95	80 - 120		0	20	
Antimony	0.500	0.546		mg/L	109	80 - 120		0	20	
Arsenic	0.100	0.0976		mg/L	98	80 - 120		0	20	
Barium	0.500	0.495	J	mg/L	99	80 - 120		1	20	
Beryllium	0.0500	0.0475		mg/L	95	80 - 120		1	20	
Boron	1.00	1.03		mg/L	103	80 - 120		1	20	
Cadmium	0.0500	0.0505		mg/L	101	80 - 120		0	20	
Chromium	0.200	0.198		mg/L	99	80 - 120		1	20	
Copper	0.250	0.251		mg/L	100	80 - 120		1	20	
Iron	1.00	1.08		mg/L	108	80 - 120		1	20	
Lead	0.100	0.104		mg/L	104	80 - 120		2	20	
Manganese	0.500	0.530		mg/L	106	80 - 120		2	20	
Molybdenum	1.00	1.03		mg/L	103	80 - 120		0	20	
Nickel	0.500	0.507		mg/L	101	80 - 120		1	20	
Selenium	0.100	0.0983		mg/L	98	80 - 120		1	20	
Silver	0.0500	0.0520		mg/L	104	80 - 120		1	20	
Thallium	0.100	0.102		mg/L	102	80 - 120		2	20	
Zinc	0.500	0.485		mg/L	97	80 - 120		1	20	

Lab Sample ID: LB3 500-493088/1-B

Matrix: Solid

Analysis Batch: 493500

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 493241

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.20		0.20	0.20	mg/L	D	07/03/19 08:55	07/03/19 17:00	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB3 500-493088/1-B

Matrix: Solid

Analysis Batch: 493500

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 493241

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.050	0.0060	mg/L		07/03/19 08:55	07/03/19 17:00	1
Arsenic	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:00	1
Barium	<0.050		0.50	0.050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Beryllium	<0.0020		0.0040	0.0020	mg/L		07/03/19 08:55	07/03/19 17:00	1
Boron	<0.050		0.10	0.050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Cadmium	<0.0010		0.0050	0.0010	mg/L		07/03/19 08:55	07/03/19 17:00	1
Chromium	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Copper	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Iron	<0.20		0.20	0.20	mg/L		07/03/19 08:55	07/03/19 17:00	1
Lead	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:00	1
Manganese	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Molybdenum	<0.0050		0.050	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Nickel	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Selenium	<0.010		0.050	0.010	mg/L		07/03/19 08:55	07/03/19 17:00	1
Silver	<0.0050		0.025	0.0050	mg/L		07/03/19 08:55	07/03/19 17:00	1
Thallium	<0.0020		0.050	0.0020	mg/L		07/03/19 08:55	07/03/19 17:00	1
Zinc	<0.020		0.10	0.020	mg/L		07/03/19 08:55	07/03/19 17:00	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-493266/12-A

Matrix: Solid

Analysis Batch: 493513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493266

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 07:48	1

Lab Sample ID: LCS 500-493266/13-A

Matrix: Solid

Analysis Batch: 493513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Mercury	0.00200	0.00206		mg/L		103	80 - 120		

Lab Sample ID: LB3 500-493088/1-C

Matrix: Solid

Analysis Batch: 493513

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 493266

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/03/19 10:15	07/05/19 08:28	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-493489/9-A

Matrix: Solid

Analysis Batch: 493559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493489

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0035		0.010	0.0035	mg/L		07/05/19 10:20	07/05/19 14:50	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-165506-2

Project/Site: Rock River Sediment Removal, Janesville

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-493489/10-A

Matrix: Solid

Analysis Batch: 493559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.103		mg/L	103	103	85 - 115

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 500-493563/3

Matrix: Solid

Analysis Batch: 493563

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.17		0.20	0.17	mg/L			07/05/19 15:51	1
Fluoride	<0.067		0.20	0.067	mg/L			07/05/19 15:51	1
Sulfate	<0.095		0.20	0.095	mg/L			07/05/19 15:51	1

Lab Sample ID: LCS 500-493563/4

Matrix: Solid

Analysis Batch: 493563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	3.10		mg/L	103	103	80 - 120
Fluoride	1.00	1.03		mg/L	103	103	80 - 120
Sulfate	5.00	5.25		mg/L	105	105	80 - 120

Lab Sample ID: 500-165506-3 MS

Matrix: Solid

Analysis Batch: 493563

Client Sample ID: Jatco Soil

Prep Type: ASTM Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.3		1.00	2.26		mg/L		99	80 - 120
Fluoride	0.074	J	0.600	0.723	^	mg/L		108	80 - 120
Sulfate	0.24		2.50	2.81		mg/L		103	80 - 120

Lab Sample ID: 500-165506-3 MSD

Matrix: Solid

Analysis Batch: 493563

Client Sample ID: Jatco Soil

Prep Type: ASTM Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.3		1.00	2.30		mg/L		103	80 - 120	2	15
Fluoride	0.074	J	0.600	0.758	^	mg/L		114	80 - 120	5	15
Sulfate	0.24		2.50	2.93		mg/L		107	80 - 120	4	15

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 500-493698/1-A

Matrix: Solid

Analysis Batch: 493761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493698

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	<0.0041		0.0050	0.0041	mg/L	1	07/08/19 07:45	07/08/19 09:53	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-165506-2

Project/Site: Rock River Sediment Removal, Janesville

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 500-493698/2-A

Matrix: Solid

Analysis Batch: 493761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493698

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phenolics, Total Recoverable	0.100	0.0947		mg/L	95	90 - 110	

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-493464/28

Matrix: Solid

Analysis Batch: 493464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 12:09	1

Lab Sample ID: LCS 500-493464/29

Matrix: Solid

Analysis Batch: 493464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Nitrogen, Nitrate Nitrite	1.00	0.883		mg/L	88	80 - 120	

Lab Sample ID: LB3 500-493088/1-A

Matrix: Solid

Analysis Batch: 493464

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			07/04/19 11:39	1

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Solid Sample #1

Date Collected: 06/20/19 00:00

Date Received: 06/21/19 09:20

Lab Sample ID: 500-165506-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	3010A			493241	07/03/19 08:55	SAH	TAL CHI
ASTM Leach	Analysis	6020A		1	493500	07/03/19 17:11	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	7470A			493266	07/03/19 10:15	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	493513	07/05/19 08:29	MJG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:08	GCA	TAL CHI
ASTM Leach	Prep	9010C			493489	07/05/19 10:20	MS	TAL CHI
ASTM Leach	Analysis	9014		1	493559		MS	TAL CHI
					(Start)	07/05/19 14:53		
					(End)	07/05/19 14:53		
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	9056A		1	493563	07/05/19 22:00	EAT	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	Distill/Phenol			493698	07/08/19 07:45	MTB	TAL CHI
ASTM Leach	Analysis	9066		1	493761	07/08/19 10:03	MTB	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	SM 4500 NO3 F		1	493464	07/04/19 11:41	PFK	TAL CHI

Client Sample ID: Solid Sample #2

Date Collected: 06/20/19 00:00

Date Received: 06/21/19 09:20

Lab Sample ID: 500-165506-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	3010A			493241	07/03/19 08:55	SAH	TAL CHI
ASTM Leach	Analysis	6020A		1	493500	07/03/19 17:15	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	7470A			493266	07/03/19 10:15	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	493513	07/05/19 08:31	MJG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:08	GCA	TAL CHI
ASTM Leach	Prep	9010C			493489	07/05/19 10:20	MS	TAL CHI
ASTM Leach	Analysis	9014		1	493559		MS	TAL CHI
					(Start)	07/05/19 14:53		
					(End)	07/05/19 14:53		
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	9056A		1	493563	07/05/19 22:12	EAT	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	9056A		5	493563	07/05/19 22:24	EAT	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	Distill/Phenol			493698	07/08/19 07:45	MTB	TAL CHI
ASTM Leach	Analysis	9066		1	493761	07/08/19 10:06	MTB	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	SM 4500 NO3 F		1	493464	07/04/19 11:43	PFK	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165506-2

Client Sample ID: Jatco Soil

Lab Sample ID: 500-165506-3

Date Collected: 06/20/19 00:00

Matrix: Solid

Date Received: 06/21/19 09:20

Prep Type	Batch	Batch	Run	Dilution Factor	Batch	Prepared	Analyst	Lab
	Type	Method			Number	or Analyzed		
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	3010A			493241	07/03/19 08:55	SAH	TAL CHI
ASTM Leach	Analysis	6020A		1	493500	07/03/19 17:19	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	7470A			493266	07/03/19 10:15	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	493513	07/05/19 08:32	MJG	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:08	GCA	TAL CHI
ASTM Leach	Prep	9010C			493489	07/05/19 10:20	MS	TAL CHI
ASTM Leach	Analysis	9014		1	493559		MS	TAL CHI
					(Start)	07/05/19 14:53		
					(End)	07/05/19 14:54		
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	9056A		1	493563	07/05/19 22:37	EAT	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Prep	Distill/Phenol			493698	07/08/19 07:45	MTB	TAL CHI
ASTM Leach	Analysis	9066		1	493761	07/08/19 10:08	MTB	TAL CHI
ASTM Leach	Leach	D3987-85			493088	07/02/19 11:25	GCA	TAL CHI
ASTM Leach	Analysis	SM 4500 NO3 F		1	493464	07/04/19 11:45	PKF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-165506-2

Project/Site: Rock River Sediment Removal, Janesville

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method _____ Prep Method _____ Matrix _____ Analyte _____

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

Eurofins TestAmerica, Chicago

Chain of Custody Record

Client Information		Sampler: <i>Riley Underwood</i>	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-66160-31136.1				
Client Contact: Mr. Daniel Dunn	Phone:	E-Mail: jim.knapp@testamericainc.com			Page: Page 1 of 1				
Company: EnviroAnalytics Group LLC				Job #: <i>500-165505</i>	Comment: <i>06/21/19</i>				
Address: 1515 Des Peres Rd. Suite 300	Due Date Requested:		Analysis Requested		Preservation Codes:				
City: Saint Louis	TAT Requested (days): <i>5-7 days</i>				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
State, Zip: MO, 63131	PO #: 7741	WO #:							
Phone: 314-835-2814(Tel)	Project #: 50014801								
Email: ddunn@enviroanalyticsgroup.com	Site: SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=waste, O=wastefill, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Decommissioned Sample (Yes or No)	Total Number of containers	Special Instructions/Note:
						N	N	S	
					Water	N	N	D	
					Water	N	N	N	
					Water	N	N	N	
					Water	N	N	N	
					Water	N	N	N	
1 2 3	Solid Sample #1 Solid Sample #2 Jacbo Soil	6/20/19 6/20/19 6/20/19	C AC AC	Solid Solid Solid			X X X		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:				
<i>Riley Underwood</i>		Date/Time: 6/20/19	Company		Received by: <i>Paula Buckley</i>	Date/Time: 6/21/19 0920	Company		
Relinquished by:		Date/Time:	Company		Received by:	Date/Time:	Company		
Relinquished by:		Date/Time:	Company		Received by:	Date/Time:	Company		
Custody Seals Intact: △ Yes △ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1.3 → 3.3 98gt</i>					

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ORIGIN ID:JVLA (636) 577-5056
RILEY UNDERWOOD
1000 INDUSTRIAL AVE
JANESVILLE, WI 53546
UNITED STATES US

SHIP DATE: 20JUN18
ACTWTG: 48.60 LB
CAD: 006984388/SSFE2002
DIMS: 24x13x14 IN
BILL THIRD PARTY

To: EUROFINS TESTAMERICA, CHICAGO

2417 BOND ST

UNIVERSITY PARK IL 60484

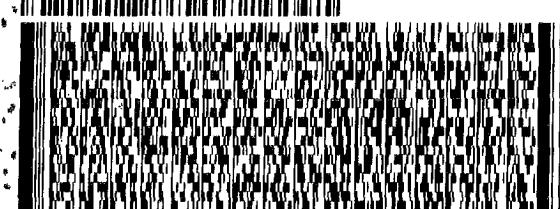
(330) 312-0178

REF:

TRN1

P01

DEPT:

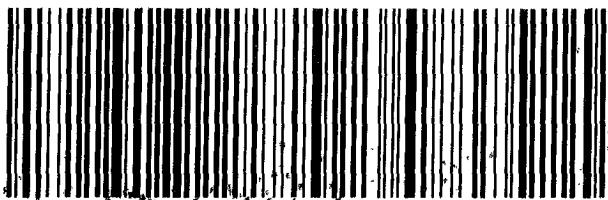


Part # 15520947535172539262094753517253926

TRK# 7880 0966 4116
0201

FRI - 21 JUN 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

79 JOTA



500-165506 Waybill

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-165506-2

Login Number: 165506

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Buckley, Paula M

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	3.3
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-165974-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/8/2019 11:21:06 AM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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The
Expert

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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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Case Narrative

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165974-1

Job ID: 500-165974-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-165974-1

Comments

No additional comments.

Receipt

The samples were received on 6/29/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS Semi VOA

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: Geo Bag 1 (500-165974-5). 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.

GC Semi VOA

Method(s) 608: The continuing calibration verification (CCV) associated with batch 283930 recovered above the upper control limit for 1016 and surrogate TCMX. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: Geo Bag 1 (500-165974-5). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: Geo Bag 1 (500-165974-5). The reagent lot number used was: 190938.

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

Metals

Method(s) 1631E: Reanalysis confirms the field blank result above the requested reporting limit: Field Blank (500-165974-2).

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

General Chemistry

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

Organic Prep

Method(s) 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-283891.

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

Definitions/Glossary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-165974-1

Qualifiers

GC/MS Semi 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.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <i>Brian Skarpe / Marc Zimmerman</i>	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-66160-31136.1				
Client Contact: Mr. Daniel Dunn		Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1				
Company: EnviroAnalytics Group LLC		Analysis Requested			Job #: 500-165974				
Address: 1515 Des Peres Rd. Suite 300		Due Date Requested:			Preservation Codes:				
City: Saint Louis		TAT Requested (days): <i>3 days</i>			A - HCl M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)				
State, Zip: MO, 63131									
Phone: 314-835-2814(Tel)		PO #: 7741							
Email: ddunn@enviroanalyticsgroup.com		WO #:							
Project Name: Rock River Sediment Removal, Janesville		Project #: 50014801							
Site:		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Permit TS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
4	Sample 4	6/28/19			Water	X X X	X		
	BF2	6/28/19			Water			X	
	Tank 3 Post cleaning	6/28/19			Water			X	
					Water				
					Water				
5	Geo Bag 1	6/27/19	C	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:				
<i>Brian Skarpe / Marc Zimmerman</i>		06/28/19 145pm	Co JT		<i>Mark Zimmerman</i>		06/29/19 0940	TAM	
<i>Marc Zimmerman</i>		Date/Time:	Company		Received by:		Date/Time:	Company	
Relinquished by:		Date/Time:	Company		Received by:		Date/Time:	Company	
Custody Seals Intact:		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>43</i>				
<input type="checkbox"/> Yes <input type="checkbox"/> No									

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ORIGIN ID:JVLA (636) 577-5056
RILEY UNDERWOOD (EAG)
1000 INDUSTRIAL AVE
JANESVILLE, WI 53546
UNITED STATES US

SHIP DATE: 28JUN19
ACTWTG: 42.00 LB
CAD: 006994398765FE2002
DIMS: 25x13x14 IN
BILL THIRD PARTY

TO

EUROFINS TESTAMERICA, CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(330) 312-0178
INN:
POI:

REF:

DEPT:



500-165974 Wayk

TRK# 7881 7909 6309
0201

XO JOTA



PART# 1562975251 PRINTDATE: 05/20
02/20



SATURDAY 10:00A
FIRST OVERNIGHT
AHS
60484
IL-US ORD

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : _____

Client ETA Site Name _____ Cooler unpacked by: Ryan Cribley
Cooler Received on 7-2-19 Opened on 7-2-19 940
FedEx 1st Gr Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 22.4 °C Corrected Cooler Temp. 22.5 °C
IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples?
If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC984738
13. Were VOAs on the COC? Yes No NA
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:
Ryan Cribley

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-165974-1

Login Number: 165974

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Fioravanti, Ariel M

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	4.8
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-165974-1

Login Number: 165974

List Number: 3

Creator: Pickl, Alex J

List Source: Eurofins TestAmerica, Pittsburgh

List Creation: 07/02/19 12:16 PM

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.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 500-166406-1

Client Project/Site: Rock River Sediment Removal, Janesville

For:

EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Mr. Daniel Dunn



Authorized for release by:
7/12/2019 4:38:00 PM

Jim Knapp, Project Manager II
(630)758-0262
jim.knapp@testamericainc.com

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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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Case Narrative

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Job ID: 500-166406-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-166406-1

Comments

No additional comments.

Receipt

The samples were received on 7/10/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS Semi VOA

Method(s) 8270D: The leachate blank for preparation batch 500-494205 and 500-494469 and analytical batch 500-494577 contained 2-Methylnaphthalene and Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SOIL Sample #3 (500-166406-2). The reagent lot number used was: 190938.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: SOIL Sample #3 (500-166406-2). 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.

Metals

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

Organic Prep

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

Detection Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Client Sample ID: SOIL Sample #1

Lab Sample ID: 500-166406-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6	J	50	2.0	ug/L	1		6020A	ASTM Leach
Chromium	8.5	J	25	5.0	ug/L	1		6020A	ASTM Leach
Lead	22	J	50	2.0	ug/L	1		6020A	ASTM Leach

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	120		40	7.2	ug/Kg	1	⊗	8270D	Total/NA
Acenaphthylene	31	J	40	5.3	ug/Kg	1	⊗	8270D	Total/NA
Anthracene	510		40	6.7	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]anthracene	780		40	5.4	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]pyrene	750		40	7.7	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	810		40	8.6	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	310		40	13	ug/Kg	1	⊗	8270D	Total/NA
Benzo[k]fluoranthene	690		40	12	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	720		40	11	ug/Kg	1	⊗	8270D	Total/NA
Dibenz(a,h)anthracene	90		40	7.7	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	2400		40	7.4	ug/Kg	1	⊗	8270D	Total/NA
Fluorene	140		40	5.6	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300		40	10	ug/Kg	1	⊗	8270D	Total/NA
Naphthalene	100		40	6.1	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	1300		40	5.6	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	1500		40	7.9	ug/Kg	1	⊗	8270D	Total/NA
1-Methylnaphthalene	78	J	81	9.8	ug/Kg	1	⊗	8270D	Total/NA
2-Methylnaphthalene	140		81	7.3	ug/Kg	1	⊗	8270D	Total/NA
Acenaphthylene	17		10	3.2	ug/L	1		8270D	ASTM Leach
Naphthalene	110	B	10	3.0	ug/L	1		8270D	ASTM Leach
2-Methylnaphthalene	1.9	J B	20	1.3	ug/L	1		8270D	ASTM Leach
Arsenic	4.1		1.0	0.35	mg/Kg	1	⊗	6010B	Total/NA
Barium	240	F1	1.0	0.12	mg/Kg	1	⊗	6010B	Total/NA
Cadmium	1.1	B	0.20	0.037	mg/Kg	1	⊗	6010B	Total/NA
Chromium	23		1.0	0.51	mg/Kg	1	⊗	6010B	Total/NA
Lead	480		0.51	0.24	mg/Kg	1	⊗	6010B	Total/NA
Selenium	0.87	J	1.0	0.60	mg/Kg	1	⊗	6010B	Total/NA
Silver	1.1		0.51	0.13	mg/Kg	1	⊗	6010B	Total/NA
Arsenic	5.0	J	50	2.0	ug/L	1		6020A	ASTM Leach
Lead	3.7	J	50	2.0	ug/L	1		6020A	ASTM Leach
Mercury	320		19	6.4	ug/Kg	1	⊗	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
D3987-85	ASTM Leaching Procedure	ASTM	TAL CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166406-1	SOIL Sample #1	Solid	07/09/19 00:00	07/10/19 09:10	
500-166406-2	SOIL Sample #3	Solid	07/09/19 00:00	07/10/19 09:10	

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Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #1

Date Collected: 07/09/19 00:00

Date Received: 07/10/19 09:10

Lab Sample ID: 500-166406-1

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L		07/11/19 17:12	07/12/19 12:59	1
Acenaphthylene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Anthracene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		07/11/19 17:12	07/12/19 12:59	1
Chrysene	<1.4		5.0	1.4	ug/L		07/11/19 17:12	07/12/19 12:59	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluoranthene	<3.2		10	3.2	ug/L		07/11/19 17:12	07/12/19 12:59	1
Fluorene	<3.8		10	3.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		07/11/19 17:12	07/12/19 12:59	1
Naphthalene	<3.0		10	3.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
Phenanthrene	<3.5		10	3.5	ug/L		07/11/19 17:12	07/12/19 12:59	1
Pyrene	<4.8		10	4.8	ug/L		07/11/19 17:12	07/12/19 12:59	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		07/11/19 17:12	07/12/19 12:59	1
2-Methylnaphthalene	<1.3		20	1.3	ug/L		07/11/19 17:12	07/12/19 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		36 - 120		07/11/19 17:12	07/12/19 12:59
Terphenyl-d14 (Surr)	102		40 - 145		07/11/19 17:12	07/12/19 12:59
2-Fluorobiphenyl (Surr)	85		34 - 110		07/11/19 17:12	07/12/19 12:59

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6 J		50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:07	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Chromium	8.5 J		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Lead	22 J		50	2.0	ug/L		07/11/19 14:48	07/12/19 12:07	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:07	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:07	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/12/19 08:20	07/12/19 11:32	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Client Sample ID: SOIL Sample #3

Date Collected: 07/09/19 00:00

Date Received: 07/10/19 09:10

Lab Sample ID: 500-166406-2

Matrix: Solid

Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120		40	7.2	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Acenaphthylene	31 J		40	5.3	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Anthracene	510		40	6.7	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]anthracene	780		40	5.4	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Benzo[a]pyrene	750		40	7.7	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Benzo[b]fluoranthene	810		40	8.6	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Benzo[g,h,i]perylene	310		40	13	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Benzo[k]fluoranthene	690		40	12	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Chrysene	720		40	11	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Dibenz(a,h)anthracene	90		40	7.7	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Fluoranthene	2400		40	7.4	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Fluorene	140		40	5.6	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Indeno[1,2,3-cd]pyrene	300		40	10	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Naphthalene	100		40	6.1	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Phenanthrene	1300		40	5.6	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Pyrene	1500		40	7.9	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
1-Methylnaphthalene	78 J		81	9.8	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
2-Methylnaphthalene	140		81	7.3	ug/Kg	⊗	07/11/19 17:43	07/12/19 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		37 - 147				07/11/19 17:43	07/12/19 13:54	1
Terphenyl-d14 (Surr)	87		42 - 157				07/11/19 17:43	07/12/19 13:54	1
2-Fluorobiphenyl (Surr)	83		43 - 145				07/11/19 17:43	07/12/19 13:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L	07/11/19 17:12	07/12/19 13:23		1
Acenaphthylene	17		10	3.2	ug/L	07/11/19 17:12	07/12/19 13:23		1
Anthracene	<3.2		10	3.2	ug/L	07/11/19 17:12	07/12/19 13:23		1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L	07/11/19 17:12	07/12/19 13:23		1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L	07/11/19 17:12	07/12/19 13:23		1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L	07/11/19 17:12	07/12/19 13:23		1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L	07/11/19 17:12	07/12/19 13:23		1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L	07/11/19 17:12	07/12/19 13:23		1
Chrysene	<1.4		5.0	1.4	ug/L	07/11/19 17:12	07/12/19 13:23		1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L	07/11/19 17:12	07/12/19 13:23		1
Fluoranthene	<3.2		10	3.2	ug/L	07/11/19 17:12	07/12/19 13:23		1
Fluorene	<3.8		10	3.8	ug/L	07/11/19 17:12	07/12/19 13:23		1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L	07/11/19 17:12	07/12/19 13:23		1
Naphthalene	110 B		10	3.0	ug/L	07/11/19 17:12	07/12/19 13:23		1
Phenanthrene	<3.5		10	3.5	ug/L	07/11/19 17:12	07/12/19 13:23		1
Pyrene	<4.8		10	4.8	ug/L	07/11/19 17:12	07/12/19 13:23		1
1-Methylnaphthalene	<5.0		20	5.0	ug/L	07/11/19 17:12	07/12/19 13:23		1
2-Methylnaphthalene	1.9 J B		20	1.3	ug/L	07/11/19 17:12	07/12/19 13:23		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		36 - 120				07/11/19 17:12	07/12/19 13:23	1
Terphenyl-d14 (Surr)	101		40 - 145				07/11/19 17:12	07/12/19 13:23	1
2-Fluorobiphenyl (Surr)	82		34 - 110				07/11/19 17:12	07/12/19 13:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Client Sample ID: SOIL Sample #3

Lab Sample ID: 500-166406-2

Date Collected: 07/09/19 00:00

Matrix: Solid

Date Received: 07/10/19 09:10

Percent Solids: 82.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<70		200	70	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1221	<87		200	87	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1232	<86		200	86	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1242	<65		200	65	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1248	<78		200	78	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1254	<43		200	43	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
PCB-1260	<97		200	97	ug/Kg	⌚	07/11/19 07:42	07/11/19 15:23	10
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68			49 - 129			07/11/19 07:42	07/11/19 15:23	10
DCB Decachlorobiphenyl	112			37 - 121			07/11/19 07:42	07/11/19 15:23	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		1.0	0.35	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Barium	240	F1	1.0	0.12	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Cadmium	1.1	B	0.20	0.037	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Chromium	23		1.0	0.51	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Lead	480		0.51	0.24	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Selenium	0.87	J	1.0	0.60	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1
Silver	1.1		0.51	0.13	mg/Kg	⌚	07/10/19 16:02	07/11/19 11:34	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	J	50	2.0	ug/L	⌚	07/11/19 14:48	07/12/19 12:14	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 12:14	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Chromium	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Lead	3.7	J	50	2.0	ug/L		07/11/19 14:48	07/12/19 12:14	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 12:14	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 12:14	1

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L	⌚	07/12/19 08:20	07/12/19 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	320		19	6.4	ug/Kg	⌚	07/11/19 14:45	07/12/19 08:40	1

Eurofins TestAmerica, Chicago

Definitions/Glossary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

GC/MS Semi VOA

Leach Batch: 494205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	D3987-85	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 494469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	3510C	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	3510C	
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	3510C	
MB 500-494469/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-494469/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Prep Batch: 494473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3541	
MB 500-494473/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-494473/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 494554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-494473/1-A	Method Blank	Total/NA	Solid	8270D	
LCS 500-494473/2-A	Lab Control Sample	Total/NA	Solid	8270D	

Analysis Batch: 494560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	8270D	

Analysis Batch: 494577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	8270D	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	8270D	
LB3 500-494205/1-C	Method Blank	ASTM Leach	Solid	8270D	
MB 500-494469/1-A	Method Blank	Total/NA	Solid	8270D	
LCS 500-494469/2-A	Lab Control Sample	Total/NA	Solid	8270D	

GC Semi VOA

Prep Batch: 494324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3541	
MB 500-494324/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-494324/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 494432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	8082A	
MB 500-494324/1-A	Method Blank	Total/NA	Solid	8082A	
LCS 500-494324/3-A	Lab Control Sample	Total/NA	Solid	8082A	

QC Association Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Metals

Leach Batch: 494205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	D3987-85	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 494263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	3050B	
MB 500-494263/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-494263/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-166406-2 MS	SOIL Sample #3	Total/NA	Solid	3050B	
500-166406-2 MSD	SOIL Sample #3	Total/NA	Solid	3050B	
500-166406-2 DU	SOIL Sample #3	Total/NA	Solid	3050B	

Prep Batch: 494388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	7470A	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	7470A	
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	7470A	
MB 500-494388/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-494388/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 494397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	7471B	
MB 500-494397/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-494397/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 494431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	6010B	
MB 500-494263/1-A	Method Blank	Total/NA	Solid	6010B	
LCS 500-494263/2-A	Lab Control Sample	Total/NA	Solid	6010B	
500-166406-2 MS	SOIL Sample #3	Total/NA	Solid	6010B	
500-166406-2 MSD	SOIL Sample #3	Total/NA	Solid	6010B	
500-166406-2 DU	SOIL Sample #3	Total/NA	Solid	6010B	

Prep Batch: 494443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	3010A	
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	3010A	
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	3010A	
LCS 500-494443/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 494610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	7471B	
MB 500-494397/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-494397/13-A	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Metals

Analysis Batch: 494623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	7470A	494388
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	7470A	494388
LB3 500-494205/1-D	Method Blank	ASTM Leach	Solid	7470A	494388
MB 500-494388/12-A	Method Blank	Total/NA	Solid	7470A	494388
LCS 500-494388/13-A	Lab Control Sample	Total/NA	Solid	7470A	494388

Analysis Batch: 494678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-1	SOIL Sample #1	ASTM Leach	Solid	6020A	494443
500-166406-2	SOIL Sample #3	ASTM Leach	Solid	6020A	494443
LB3 500-494205/1-B	Method Blank	ASTM Leach	Solid	6020A	494443
LCS 500-494443/2-A	Lab Control Sample	Total/NA	Solid	6020A	494443

General Chemistry

Analysis Batch: 494124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166406-2	SOIL Sample #3	Total/NA	Solid	Moisture	

Surrogate Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (37-147)	TPHL (42-157)	FBP (43-145)
500-166406-2	SOIL Sample #3	72	87	83
LCS 500-494473/2-A	Lab Control Sample	88	86	80
MB 500-494473/1-A	Method Blank	80	85	79

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
LCS 500-494469/2-A	Lab Control Sample	75	93	77
MB 500-494469/1-A	Method Blank	74	97	77

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: ASTM Leach

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
500-166406-1	SOIL Sample #1	81	102	85
500-166406-2	SOIL Sample #3	79	101	82
LB3 500-494205/1-C	Method Blank	78	105	82

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-166406-2	SOIL Sample #3	68	112
LCS 500-494324/3-A	Lab Control Sample	81	87
MB 500-494324/1-A	Method Blank	76	97

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-494469/1-A
Matrix: Solid
Analysis Batch: 494577
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494469

Analyte	MB	MB	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result									
Acenaphthene	<0.36			1.0	0.36	ug/L		07/11/19 17:12	07/12/19 12:35	1
Acenaphthylene	<0.32			1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Anthracene	<0.32			1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[a]anthracene	<0.044			0.20	0.044	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[a]pyrene	<0.056			0.20	0.056	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[b]fluoranthene	<0.058			0.20	0.058	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[g,h,i]perylene	<0.42			1.0	0.42	ug/L		07/11/19 17:12	07/12/19 12:35	1
Benzo[k]fluoranthene	<0.074			0.20	0.074	ug/L		07/11/19 17:12	07/12/19 12:35	1
Chrysene	<0.14			0.50	0.14	ug/L		07/11/19 17:12	07/12/19 12:35	1
Dibenz(a,h)anthracene	<0.064			0.30	0.064	ug/L		07/11/19 17:12	07/12/19 12:35	1
Fluoranthene	<0.32			1.0	0.32	ug/L		07/11/19 17:12	07/12/19 12:35	1
Fluorene	<0.38			1.0	0.38	ug/L		07/11/19 17:12	07/12/19 12:35	1
Indeno[1,2,3-cd]pyrene	<0.084			0.20	0.084	ug/L		07/11/19 17:12	07/12/19 12:35	1
Naphthalene	<0.30			1.0	0.30	ug/L		07/11/19 17:12	07/12/19 12:35	1
Phenanthrene	<0.35			1.0	0.35	ug/L		07/11/19 17:12	07/12/19 12:35	1
Pyrene	<0.48			1.0	0.48	ug/L		07/11/19 17:12	07/12/19 12:35	1
1-Methylnaphthalene	<0.50			2.0	0.50	ug/L		07/11/19 17:12	07/12/19 12:35	1
2-Methylnaphthalene	<0.13			2.0	0.13	ug/L		07/11/19 17:12	07/12/19 12:35	1
Surrogate	MB	MB	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
	%Recovery									
Nitrobenzene-d5 (Surr)	74			36 - 120			07/11/19 17:12	07/12/19 12:35	1	
Terphenyl-d14 (Surr)	97			40 - 145			07/11/19 17:12	07/12/19 12:35	1	
2-Fluorobiphenyl (Surr)	77			34 - 110			07/11/19 17:12	07/12/19 12:35	1	

Lab Sample ID: LCS 500-494469/2-A
Matrix: Solid
Analysis Batch: 494577
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494469

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Acenaphthene	40.0	29.3		ug/L		73	46 - 110	
Acenaphthylene	40.0	29.7		ug/L		74	47 - 110	
Anthracene	40.0	34.2		ug/L		85	67 - 110	
Benzo[a]anthracene	40.0	35.5		ug/L		89	70 - 120	
Benzo[a]pyrene	40.0	37.1		ug/L		93	70 - 120	
Benzo[b]fluoranthene	40.0	35.0		ug/L		87	69 - 123	
Benzo[g,h,i]perylene	40.0	37.9		ug/L		95	70 - 120	
Benzo[k]fluoranthene	40.0	35.5		ug/L		89	70 - 120	
Chrysene	40.0	34.2		ug/L		85	68 - 120	
Dibenz(a,h)anthracene	40.0	37.9		ug/L		95	70 - 127	
Fluoranthene	40.0	37.1		ug/L		93	68 - 120	
Fluorene	40.0	31.4		ug/L		79	53 - 120	
Indeno[1,2,3-cd]pyrene	40.0	39.1		ug/L		98	65 - 133	
Naphthalene	40.0	24.5		ug/L		61	36 - 110	
Phenanthrene	40.0	33.8		ug/L		84	65 - 120	
Pyrene	40.0	34.8		ug/L		87	70 - 110	
1-Methylnaphthalene	40.0	25.8		ug/L		65	38 - 110	
2-Methylnaphthalene	40.0	25.3		ug/L		63	34 - 110	

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QC Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-494469/2-A**Matrix: Solid****Analysis Batch: 494577****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 494469**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	75		36 - 120
Terphenyl-d14 (Surr)	93		40 - 145
2-Fluorobiphenyl (Surr)	77		34 - 110

Lab Sample ID: MB 500-494473/1-A**Matrix: Solid****Analysis Batch: 494554****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 494473**

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Acenaphthylene	<4.4		33	4.4	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Anthracene	<5.6		33	5.6	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Chrysene	<9.1		33	9.1	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Fluoranthene	<6.2		33	6.2	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Fluorene	<4.7		33	4.7	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Naphthalene	<5.1		33	5.1	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Phenanthrene	<4.6		33	4.6	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
Pyrene	<6.6		33	6.6	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg	07/11/19 17:43	07/12/19 13:42		1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg	07/11/19 17:43	07/12/19 13:42		1

Surrogate	MB %Recovery	MB Qualifier	Limits
Nitrobenzene-d5 (Surr)	80		37 - 147
Terphenyl-d14 (Surr)	85		42 - 157
2-Fluorobiphenyl (Surr)	79		43 - 145

Client Sample ID: Lab Control Sample**Prep Type: Total/NA****Prep Batch: 494473****Lab Sample ID: LCS 500-494473/2-A****Matrix: Solid****Analysis Batch: 494554**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1330	1130		ug/Kg	85	85	65 - 124
Acenaphthylene	1330	1140		ug/Kg	86	86	68 - 120
Anthracene	1330	1140		ug/Kg	85	85	70 - 114
Benzo[a]anthracene	1330	1150		ug/Kg	86	86	67 - 122
Benzo[a]pyrene	1330	1230		ug/Kg	93	93	65 - 133
Benzo[b]fluoranthene	1330	1130		ug/Kg	85	85	69 - 129
Benzo[g,h,i]perylene	1330	1110		ug/Kg	83	83	72 - 131
Benzo[k]fluoranthene	1330	1180		ug/Kg	88	88	68 - 127
Chrysene	1330	1110		ug/Kg	83	83	63 - 120
Dibenz(a,h)anthracene	1330	1140		ug/Kg	85	85	64 - 131

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-494473/2-A

Matrix: Solid

Analysis Batch: 494554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Fluoranthene	1330	1160		ug/Kg	87	62 - 120	
Fluorene	1330	1090		ug/Kg	82	62 - 120	
Indeno[1,2,3-cd]pyrene	1330	1160		ug/Kg	87	68 - 130	
Naphthalene	1330	1130		ug/Kg	85	63 - 110	
Phenanthrene	1330	1080		ug/Kg	81	62 - 120	
Pyrene	1330	1120		ug/Kg	84	61 - 128	
1-Methylnaphthalene	1330	1090		ug/Kg	82	68 - 111	
2-Methylnaphthalene	1330	1070		ug/Kg	80	69 - 112	
<hr/>							
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Nitrobenzene-d5 (Surr)	88		37 - 147				
Terphenyl-d14 (Surr)	86		42 - 157				
2-Fluorobiphenyl (Surr)	80		43 - 145				

Lab Sample ID: LB3 500-494205/1-C

Matrix: Solid

Analysis Batch: 494577

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 494469

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<3.6		10	3.6	ug/L	07/11/19 17:12	07/12/19 12:11		1
Acenaphthylene	<3.2		10	3.2	ug/L	07/11/19 17:12	07/12/19 12:11		1
Anthracene	<3.2		10	3.2	ug/L	07/11/19 17:12	07/12/19 12:11		1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L	07/11/19 17:12	07/12/19 12:11		1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L	07/11/19 17:12	07/12/19 12:11		1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L	07/11/19 17:12	07/12/19 12:11		1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L	07/11/19 17:12	07/12/19 12:11		1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L	07/11/19 17:12	07/12/19 12:11		1
Chrysene	<1.4		5.0	1.4	ug/L	07/11/19 17:12	07/12/19 12:11		1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L	07/11/19 17:12	07/12/19 12:11		1
Fluoranthene	<3.2		10	3.2	ug/L	07/11/19 17:12	07/12/19 12:11		1
Fluorene	<3.8		10	3.8	ug/L	07/11/19 17:12	07/12/19 12:11		1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L	07/11/19 17:12	07/12/19 12:11		1
Naphthalene	3.68 J		10	3.0	ug/L	07/11/19 17:12	07/12/19 12:11		1
Phenanthrene	<3.5		10	3.5	ug/L	07/11/19 17:12	07/12/19 12:11		1
Pyrene	<4.8		10	4.8	ug/L	07/11/19 17:12	07/12/19 12:11		1
1-Methylnaphthalene	<5.0		20	5.0	ug/L	07/11/19 17:12	07/12/19 12:11		1
2-Methylnaphthalene	1.54 J		20	1.3	ug/L	07/11/19 17:12	07/12/19 12:11		1
<hr/>									
Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Nitrobenzene-d5 (Surr)	78		36 - 120	07/11/19 17:12	07/12/19 12:11	1			
Terphenyl-d14 (Surr)	105		40 - 145	07/11/19 17:12	07/12/19 12:11	1			
2-Fluorobiphenyl (Surr)	82		34 - 110	07/11/19 17:12	07/12/19 12:11	1			

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-494324/1-A

Matrix: Solid

Analysis Batch: 494432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 494324

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1254	<3.6		17	3.6	ug/Kg		07/11/19 07:42	07/11/19 14:52	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/11/19 07:42	07/11/19 14:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	76		49 - 129
DCB Decachlorobiphenyl	97		37 - 121

Prepared

Analyzed

Dil Fac

Lab Sample ID: LCS 500-494324/3-A

Matrix: Solid

Analysis Batch: 494432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	167	133		ug/Kg		80	57 - 120
PCB-1260	167	134		ug/Kg		80	61 - 125

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	81		49 - 129
DCB Decachlorobiphenyl	87		37 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-494263/1-A

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 494263

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Barium	<0.11		1.0	0.11	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Cadmium	0.0923 J		0.20	0.036	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Lead	<0.23		0.50	0.23	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/10/19 16:02	07/11/19 11:02	1
Silver	<0.13		0.50	0.13	mg/Kg		07/10/19 16:02	07/11/19 11:02	1

Lab Sample ID: LCS 500-494263/2-A

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	9.27		mg/Kg		93	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Project/Site: Rock River Sediment Removal, Janesville

Job ID: 500-166406-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-494263/2-A

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494263

%Rec.

Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	9.51		mg/Kg		95	80 - 120
Selenium	10.0	8.71		mg/Kg		87	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120

Lab Sample ID: 500-166406-2 MS

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: SOIL Sample #3

Prep Type: Total/NA

Prep Batch: 494263

%Rec.

Limits

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	4.1		11.9	16.2		mg/Kg	⊗	102	75 - 125
Barium	240	F1	237	394	F1	mg/Kg	⊗	67	75 - 125
Cadmium	1.1	B	5.93	6.25		mg/Kg	⊗	87	75 - 125
Chromium	23		23.7	46.5		mg/Kg	⊗	97	75 - 125
Lead	480		11.9	480	4	mg/Kg	⊗	-19	75 - 125
Selenium	0.87	J	11.9	10.4		mg/Kg	⊗	80	75 - 125
Silver	1.1		5.93	6.66		mg/Kg	⊗	94	75 - 125

Lab Sample ID: 500-166406-2 MSD

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: SOIL Sample #3

Prep Type: Total/NA

Prep Batch: 494263

%Rec.

RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	4.1		10.8	15.3		mg/Kg	⊗	104	75 - 125	6	20
Barium	240	F1	215	408		mg/Kg	⊗	80	75 - 125	3	20
Cadmium	1.1	B	5.38	7.24		mg/Kg	⊗	115	75 - 125	15	20
Chromium	23		21.5	46.9		mg/Kg	⊗	109	75 - 125	1	20
Lead	480		10.8	557	4	mg/Kg	⊗	694	75 - 125	15	20
Selenium	0.87	J	10.8	9.00		mg/Kg	⊗	76	75 - 125	14	20
Silver	1.1		5.38	6.21		mg/Kg	⊗	95	75 - 125	7	20

Lab Sample ID: 500-166406-2 DU

Matrix: Solid

Analysis Batch: 494431

Client Sample ID: SOIL Sample #3

Prep Type: Total/NA

Prep Batch: 494263

RPD

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	Limit
Arsenic	4.1			5.15	F3	mg/Kg	⊗			22	20
Barium	240	F1		175	F3	mg/Kg	⊗			30	20
Cadmium	1.1	B		0.897		mg/Kg	⊗			16	20
Chromium	23			27.1		mg/Kg	⊗			14	20
Lead	480			768	F3	mg/Kg	⊗			46	20
Selenium	0.87	J		0.797	J	mg/Kg	⊗			8	20
Silver	1.1			1.02		mg/Kg	⊗			6	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-494443/2-A

Matrix: Solid

Analysis Batch: 494678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Arsenic	100	96.8		ug/L		97	80 - 120	
Barium	500	489	J	ug/L		98	80 - 120	
Cadmium	50.0	50.6		ug/L		101	80 - 120	
Chromium	200	209		ug/L		105	80 - 120	
Lead	100	101		ug/L		101	80 - 120	
Selenium	100	96.4		ug/L		96	80 - 120	
Silver	50.0	51.5		ug/L		103	80 - 120	

Lab Sample ID: LB3 500-494205/1-B

Matrix: Solid

Analysis Batch: 494678

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 494443

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<2.0		50	2.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Barium	<50		500	50	ug/L		07/11/19 14:48	07/12/19 11:59	1
Cadmium	<1.0		5.0	1.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Chromium	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Lead	<2.0		50	2.0	ug/L		07/11/19 14:48	07/12/19 11:59	1
Selenium	<10		50	10	ug/L		07/11/19 14:48	07/12/19 11:59	1
Silver	<5.0		25	5.0	ug/L		07/11/19 14:48	07/12/19 11:59	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-494388/12-A

Matrix: Solid

Analysis Batch: 494623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 494388

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/11/19 10:25	07/12/19 08:34	1

Lab Sample ID: LCS 500-494388/13-A

Matrix: Solid

Analysis Batch: 494623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Mercury	2.00	1.99		ug/L		100	80 - 120	

Lab Sample ID: LB3 500-494205/1-D

Matrix: Solid

Analysis Batch: 494623

Client Sample ID: Method Blank

Prep Type: ASTM Leach

Prep Batch: 494388

Analyte	LB3 Result	LB3 Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/11/19 10:25	07/12/19 11:30	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-494397/12-A

Matrix: Solid

Analysis Batch: 494610

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.6		17	5.6	ug/Kg		07/11/19 14:45	07/12/19 08:34	1

Lab Sample ID: LCS 500-494397/13-A

Matrix: Solid

Analysis Batch: 494610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Mercury	167	171		ug/Kg		102	80 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 494397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494397

%Rec.

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Lab Chronicle

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Client Sample ID: SOIL Sample #1

Date Collected: 07/09/19 00:00

Date Received: 07/10/19 09:10

Lab Sample ID: 500-166406-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3510C			494469	07/11/19 17:12	ACK	TAL CHI
ASTM Leach	Analysis	8270D		1	494577	07/12/19 12:59	STW	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3010A			494443	07/11/19 14:48	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	494678	07/12/19 12:07	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	7470A			494388	07/12/19 08:20	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	494623	07/12/19 11:32	MJG	TAL CHI

Client Sample ID: SOIL Sample #3

Date Collected: 07/09/19 00:00

Date Received: 07/10/19 09:10

Lab Sample ID: 500-166406-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3510C			494469	07/11/19 17:12	ACK	TAL CHI
ASTM Leach	Analysis	8270D		1	494577	07/12/19 13:23	STW	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	3010A			494443	07/11/19 14:48	BDE	TAL CHI
ASTM Leach	Analysis	6020A		1	494678	07/12/19 12:14	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			494205	07/10/19 13:06	GCA	TAL CHI
ASTM Leach	Prep	7470A			494388	07/12/19 08:20	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	494623	07/12/19 11:33	MJG	TAL CHI
Total/NA	Analysis	Moisture		1	494124	07/10/19 09:52	LWN	TAL CHI

Client Sample ID: SOIL Sample #3

Date Collected: 07/09/19 00:00

Date Received: 07/10/19 09:10

Lab Sample ID: 500-166406-2

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			494473	07/11/19 17:43	NRJ	TAL CHI
Total/NA	Analysis	8270D		1	494560	07/12/19 13:54	STW	TAL CHI
Total/NA	Prep	3541			494324	07/11/19 07:42	DX	TAL CHI
Total/NA	Analysis	8082A		10	494432	07/11/19 15:23	BJH	TAL CHI
Total/NA	Prep	3050B			494263	07/10/19 16:02	BDE	TAL CHI
Total/NA	Analysis	6010B		1	494431	07/11/19 11:34	JEF	TAL CHI
Total/NA	Prep	7471B			494397	07/11/19 14:45	MJG	TAL CHI
Total/NA	Analysis	7471B		1	494610	07/12/19 08:40	MJG	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC

Job ID: 500-166406-1

Project/Site: Rock River Sediment Removal, Janesville

Laboratory: Eurofins TestAmerica, Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method _____ Prep Method _____ Matrix _____ Analyte _____

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

Eurofins TestAmerica, Chicago

TestAmerica Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <i>RH</i>		Lab PM: Knapp, Jim D		Car 500-166406 COC		COC No: 500-66160-31136.1			
Client Contact: Mr. Daniel Dunn		Phone:		E-Mail: jim.knapp@testamericainc.com				Page: Page 1 of 1			
Company: EnviroAnalytics Group LLC								Job #: <i>500-166406</i>			
Address: 1515 Des Peres Rd. Suite 300		Due Date Requested:						Preservation Codes:			
City: Saint Louis		TAT Requested (days):		<i>3 days</i>				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
State, Zip: MO, 63131								Other:			
Phone: 314-835-2814(Tel)		PO #: 7741									
Email: ddunn@enviroanalyticsgroup.com		WO #:									
Project Name: Rock River Sediment Removal, Janesville		Project #: 50014801									
Site:		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefill, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perfom MSD (Yes or No)	Total Number of containers	Special Instructions/Note:		
<i>Soil Sample #1</i>		<i>7/9/19</i>	<i>C</i>	<i>soil</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>Soil Sample #3</i>		<i>7/9/19</i>	<i>C</i>	<i>soil</i>			<input checked="" type="checkbox"/>				
				Water			<input checked="" type="checkbox"/>				
				Water			<input checked="" type="checkbox"/>				
				Water							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: <i>3, 8</i>									
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:							
<i>Reilly Netherton</i>											
Relinquished by:		Date/Time:	Company:	Received by:			Date/Time:	<i>0910</i>	Company		
Relinquished by:		Date/Time:	Company:	Received by:			Date/Time:		Company		
Custody Seals Intact: △ Yes △ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: <i>3.8</i>					

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ORIGIN ID: JVLA (636) 577-5056

RILEY UNDERWOOD

1000 INDUSTRIAL AVE

JANESVILLE, WI 53546

UNITED STATES US

SHIP DATE: 09JUL19
ACTWGT: 21.10 LB
CAD: 006894388/SSFE2002
DIMS: 18x12x17 IN

BILL THIRD PARTY

Part # 156297-982-AZ-2018-08/18

TO **EUROFINS TEST AMERICA, CHICAGO**

2417 BOND ST



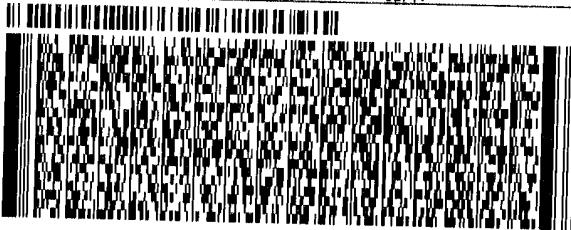
UNIVERSITY PARK IL 60484

(909) 888-8888
INTL
POI

REF:

500-166406 Waybill

DEPT:

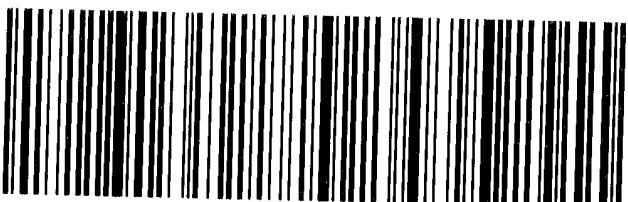


TRK#
0201 7883 6882 0050

WED - 10 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

**60484
IL-US ORD**



Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-166406-1

Login Number: 166406

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	3.8
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	